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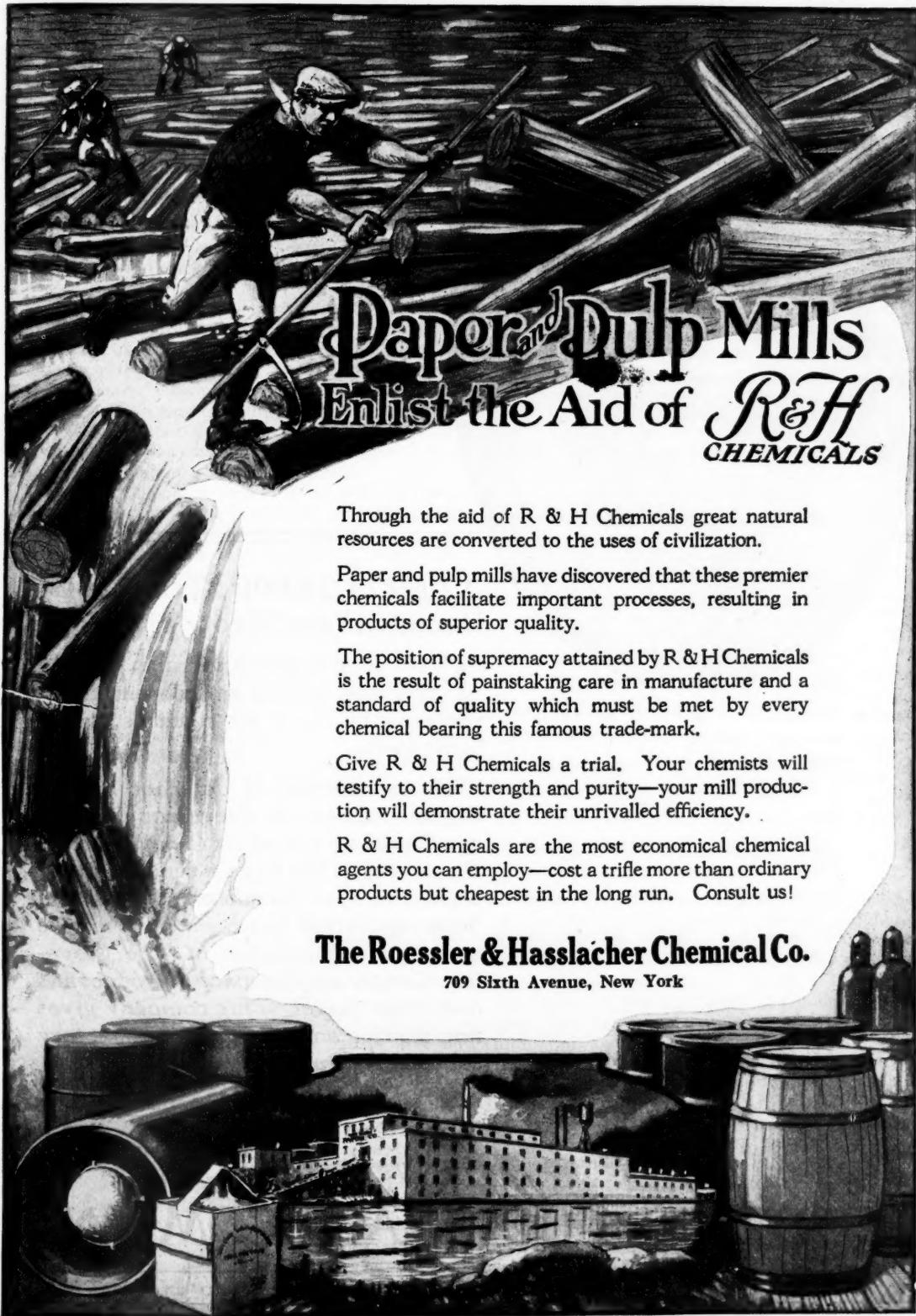
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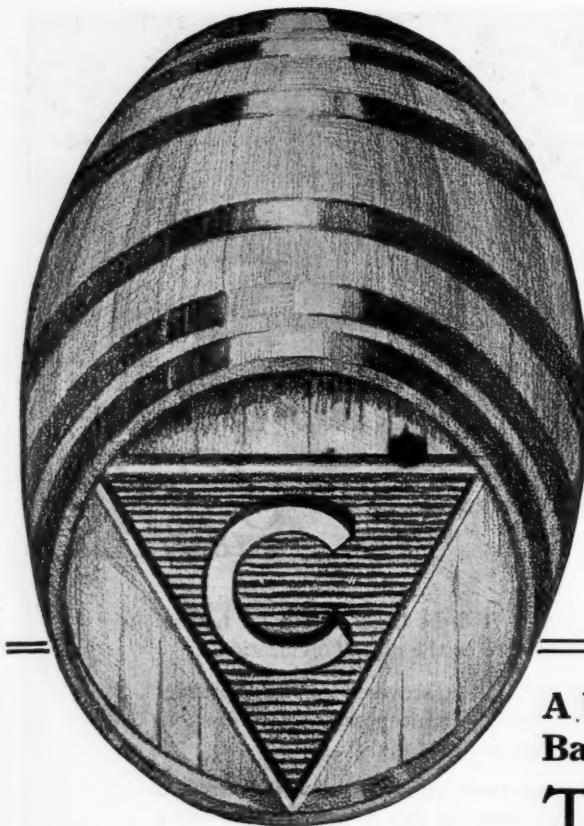
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ISSUED EVERY WEDNESDAY

# DRUG & CHEMICAL MARKETS

3 PARK PLACE, NEW YORK

VOLUME XIII, NUMBER 22

[NOVEMBER 28, 1923]

## PROFITS AND PROFITEERING

Normal profits is a phrase that has been thrust into our common business speech by the income tax: but we do not accept the law's definition of fifteen per cent.

We recognize that a normal profit on the sale of caustic soda or benzol is a very different thing from a normal profit on the sale of berberine hydrochloride or otto of rose. Risk, we know, is a cost, and skill in manufacture or in selling is an asset. The breadth of the market and the force of competition are other factors not easy to measure, but very potent. So to the concept of normal profits we have added the thought of necessary profits.

They are not the same. When the economist speaks of normal wages, normal interest, normal prices he does not mean the sums that must be paid to make people do certain work, lend certain money or produce certain goods. He does mean the prices that result naturally out of a given economic situation and affect wages, interest, and profits. Normal profits vary with the situation; necessary profits with the enterprise itself.

This is a difference worth remembering. It has a good deal to do with a just definition of a profiteer and bears directly on tax rates. There is small doubt that taxes on corporation profits and personal incomes are now a definite part of our governmental revenues, and their most intelligent levying is important to our national prosperity.

The truth is that profits vary more between different companies in the same field and fluctuate more from year to year in the same firm's operations than most of us suspect. In the banking field with its careful checks upon undue risk, its keen competition and its full knowledge of interest rates, one would naturally expect little variation in profits, yet of the ten largest banks in New York City. in the year 1919, one earned 35.8% on its capital and surplus while another earned 10.4%, with an average for the group of 16.8. Nor is size apparently a determining factor, for the first and tenth bank had the same capital and surplus; the largest bank stood ninth and the smallest fifth. For all national banks the country over during the present century the percentages of net earnings have varied from 8.2 in 1900 to 16.4 in 1907. In the industrial field such variations are naturally greater. From tax statistics it appears that 31,045 corporations showed in 1917 an average income on invested capital of 21.7% before taxes, but this varied from a fraction of a per cent to 118.1%, with half of the profits earned by companies earning at the rate of 30% or more.

These few figures are enough to show that to set

a definite figure on normal profits is like setting up a definite standard of feminine beauty. We have fallen into the bad habit of seeking always for some criminal act in every unusual economic situation. We blame manufacturers for this, and labor for that, the farmer for one thing and the railways for another. Only the beloved ultimate consumer—who is all of us, manufacturers, laborers, farmers, and even editors—escapes censure. It is no solution to throw a man in jail because an abnormal situation—as the war created—makes the opportunity for more than necessary profits. It will be a suicidal tax policy if we continue to pile excess profits taxes on unusual ability, on extraordinary risk, on conspicuous initiative.

## LEVERHULME'S TARIFF VIEWS

Viscount Leverhulme's argument for free trade as applied to the United States is so plainly illogical that business men will smile when they read his remarks and dismiss them as based on selfish motives. He used the simile "if the United States has benefitted through free interstate commerce among its 110,000,000 people, why not profit all the more by extending it to the billion and a half people on the outside?" One answer is because the rest of the world has such impossible standards of living and works for such low wages that the competition of foreign-made goods would ruin American industries, throw millions of men and women out of employment and drag down the American wage earner to the level of the unfortunate classes in countries where a day's pay is a few cents.

England is in the peculiar position of being unable to raise sufficient food for her people, who would starve to death in a few weeks unless able to exchange manufactured goods for foodstuffs. England's attitude in the European situation is explained by the fact that her political leaders must find markets for the products of her vast industries, and encourage countries like Russia and Germany to supply her with food. England must also favor her Dominions and in turn Canada and Australia buy in the mother country.

The United States is a wonderful market and every foreign nation studies the opportunities for selling its products here. It became necessary not only to protect domestic industries against the products of pauper labor, but in addition to pass anti-dumping laws, owing to the disposition of manufacturers abroad to put their surplus stocks on this market at any old price, for they know they can undersell American manufacturers in spite of the tariff. Free trade among people of

similar high standards of living, as in the several states, is one thing, but competition with the rest of the world would mean empty dinner pails and the establishment of soup kitchens to feed the unemployed.

#### DAVISON CHEMICAL STOCK

"Rumors Stampede Davison Shares.—Stock Breaks Twenty Points in Twenty Minutes With Flood of Selling. Silica Gel Reports Denied." This was the "head" of a story in the "New York Times" describing the precipitous drop in Davison Chemical on the New York Stock Exchange last Thursday. Reports that several of the Standard Oil Companies had arranged to use the so-called silica gel process for the refining of petroleum were circulated throughout the New York financial district for a week previous. On the strength of these vague reports and rumors, the stock climbed steadily until it reached 78. At this point, the Standard Oil Company of Indiana announced flatly that they had not arranged to use silica gel. This announcement broke the stock price of Davison about twenty points, although it is safe to wager that those "in the know" got out from under before the drop.

As far as can be determined, rumors of contracts with big oil refiners have been "just about to be made" by the Davison company for about a year or so back. DRUG & CHEMICAL MARKETS has received reams of publicity matter from Baltimore telling of the wonders of silica gel, and hinting that several big oil companies were just on the verge of signing contracts for its use. On the strength of rumors and reports, the stock has come to be a gambler's chance where it was once a conservative investment. That the insiders in Baltimore are not responsible for the wild gyrations of the stock looks like empty talk. Why do they permit all kinds of rumors to fly thick and fast without a word of denial? Why do they leave it for the big oil companies to do the denying of silica gel contracts? Why not spike false rumors immediately? Most certainly at the present stage of the game, for outsiders, dice or cards are safer than playing with Davison chemical.

#### PROPERTY RIGHTS IN TRADE-MARK GOODS

No trade body is more deeply interested in price maintenance than the National Wholesale Druggists' Association which was organized fifty years ago to fight price-cutting. The Proprietary Committee recommended the Rebate Contract Price Regulation plan, requiring only a mutual understanding and agreement between producer and distributor. Then came the enactment of anti-trust laws which destroyed the system.

The wholesale drug trade is made up of trademarked products which are so extensively advertised as to be familiar to the public and these articles are chosen by the price-cutter as leaders in his scheme to hoodwink purchasers into the belief that they are getting a bargain when in fact they pay more for some other inferior article than it is worth. The price-cutter thus gets rid of slow-sell-

ing merchandise at a high price and at the expense of the manufacturer of some popular product used as a leader. Any manufacturer would prefer to have a large list of customers who are making a fair profit rather than a few dealers who draw trade by price-cutting. The manufacturer knows that price-cutting hurts the reputation of his product, and narrows his market because eventually the large orders come only from the few stores that are underselling the legitimate firms. With a large number of dealers selling a product the market constantly widens and orders increase in size and frequency. With his business centered in the hands of a few price-cutters, the manufacturer faces ultimate ruin.

The United States is the only leading industrial nation that does not recognize the right of a manufacturer to protect products created by him and distributed through the usual channels of trade. In Great Britain, Germany, France, Belgium and Denmark the principle is founded in the law that the manufacturer has acquired certain property rights in articles which he has branded, and that he has the right to make contracts regarding the resale prices. The feeling is general in business circles that legislation should be enacted at the next session of Congress which will re-establish this legal principle and offset the unfair construction which the courts have placed upon the Sherman and Clayton acts.

Regarding prohibition, Viscount Leverhulme says it would be much better to approach the liquor issue from an educational angle. It takes considerable education to get that acquired taste for smoky Scotch.

#### Many Men: Many Minds

Half the world doesn't know how the other half lives after drinking the stuff it does.—Philadelphia Inquirer.

Germany has discovered at last that "passive resistance" is about as effectual as curing indigestion by going without food.—Shoe and Leather Reporter.

"The present industrial activity in Germany is but the beginning of a great movement to secure a control of the markets of the world. This is not a settled government policy, but rather an instinctive putting forth of the energies of a people accustomed to untiring labors and with a spirit of determination to regain their old time prosperity and power."—President Hibben, Princeton University, Princeton, N. J.

About 33% of the 4½ trillion matches consumed in the world are produced in the United States, 20% in Sweden, 20% in Japan, 15% in Great Britain, and the bulk of the remainder in Poland, Norway, Germany and limited quantities in China. The United States, while the biggest producer of the world, exports but a limited quantity. Japan and Sweden are the world's chief exporters of matches. Japan supplies a large part of the matches used in the Orient, especially India, China, and the Dutch East Indies, while Sweden exports largely to adjacent European countries, and also to Africa, South America and Australia.—National City Bank of New York.

# The Expanding Uses of Benzoates

## Broadening Field for Benzoic Acid Derivatives Particularly in Medicinal Products

**B**ENZOIC acid plays an important part in three distinctly different spheres, as a preservative of food, as an intermediate in the manufacture of certain dyes, and in medicine. In the preservation of food benzoic acid is used in a limited way due to its insolubility, but sodium benzoate is employed to a large extent.

Shortly before 1909, a great clamor arose against benzoate claiming it to be injurious to the human system when taken internally. To settle the controversy, the Secretary of Agriculture appointed The Referee Board of Consulting Scientific Experts composed of Dr. Ira Remsen, Dr. Russell H. Crittenden, Dr. John H. Long, Dr. Alonzo E. Taylor and Dr. C. A. Herten to conduct experiments and to determine the answer.

To make this experimental inquiry as thorough as possible, and to minimize the personal equation, three independent investigations have been carried out. The same general plan of procedure was followed in all three experiments. A certain number of healthy young men were selected as subjects and during a period of four months these men, under definite conditions of diet, etc., with and without sodium benzoate, were subjected to thorough clinical and medical observation. The conclusion reached as a result of the individual investigations was that benzoate of soda was not in any way harmful or injurious to health. The finding of the Board and decision of the Secretary of Agriculture were issued March 3, 1903, as Food Inspection Decision 104.

An example of the preservative properties of benzoic acid is supplied us by nature in cranberries in which product about one-fifth of one per cent of benzoic acid is found naturally. Their remarkable keeping qualities well illustrate the value of benzoate as a preservative. Benzoic acid is also present in currants, green gages and other fruits. As an illustration of the preserving power of benzoic acid as compared with boric acid, it has been determined that benzoic acid is powerful in preventing the growth of molds, yeast and nearly all bacteria in proportion of 1 to 909 while boric acid is antiseptic only in one to 143 parts (Miquel). Due to its antiseptic properties, it is widely used in toothpastes, mouth washes and deodorants, also as a preservative in ointments and toilet creams.

To determine the best preserving agent for medicinal preparations, Parke, Davis & Company conducted some very exhaustive experiments which were summed up in the Journal of the Amer. Phar. Assn., October, 1921. From these experiments it was determined that benzoic acid was much more efficient than salicylic acid in both acid and neutral media but in alkali medium neither was effective.

Further reference to the problem is reported by A. Labot, Bull. Soc. Pharm. Bordeaux, 60, 104-106 (1922). "Benzoic acid is a suitable preservative for solutions of many organic chemicals. For solutions of epinephrine, 2 g. per liter are sufficient to prevent discolora-

tion or other deterioration. The solutions can be tyndallized or even sterilized by boiling without injury. For the preservation of solutions of morphine, stovaine, cocaine and novocaine with or without the addition of epinephrine, 1 g. per liter is sufficient. In the past cherry laurel water or phenol was added to hypodermic solutions to make them sterile. The former is ineffective and the latter causes pain on injection. Benzoic acid is a stronger antiseptic and is inoffensive."

Of the numerous medicinal uses for benzoic acid and the benzoates, perhaps the case of benzyl benzoate is most interesting. This product has for years found its chief use in the perfume industry, and as a solvent for musk. One pound of benzyl benzoate will dissolve four ounces of synthetic musk while one gallon of alcohol will only dissolve one-half ounce. As a fixative of odors and flavors it is also largely used.

In medicine, benzyl benzoate was unknown until 1919 when Dr. David I. Macht of Johns Hopkins University an-

nounced to the world the result of several years of pharmacological study of the minor alkaloids of opium. He grouped the action of the opium alkaloids into two classes; the pyridin-phenanthrene group exemplified by morphine and the benzyl-isoquinolin group exemplified by papaverin. The latter group he found inhibited contractions of the smooth muscle tissues and demonstrated that this anti-spasmodic action was due to the benzyl grouping of the papaverin molecule. These observations led to a search for the product that contained the benzyl radicle ( $C_6H_5CH_2$ ) and was at the same time non-toxic and non-narcotic. Benzyl acetate and benzyl benzoate were selected as meeting these requirements but due to the fact that benzyl acetate possessed a distinctive floral odor while the benzoate was odorless, the latter product was selected as offering the more suitable material.

It has since been demonstrated that benzyl benzoate exerted a pronounced anti-spasmodic action on smooth muscle tissue and is now being used extensively to relieve such conditions as colics, and the like. Benzyl benzoate while accomplishing very good results in relieving the conditions indicated, has distinct disadvantages in that it is a liquid, insoluble in water and possessing a very nauseating taste so that it is not well tolerated by many patients. To overcome this objection, benzyl succinate was produced, which is a white salt without odor or taste and while it contains approximately 40 per cent more of the benzyl radicle than does benzyl benzoate, its action is slower. To overcome the drawbacks of both these products and to produce one that was soluble in water so it could be combined with other medicinal agents, a salt of mono benzyl succinic acid was made and this has accomplished striking results in the relief of colics, etc.

In the field of local anesthetics, we have the ethyl ester of paramino benzoic acid which was introduced into this country previous to the war as anesthesin.



Sales Manager  
Seydel Chemical Co.



The name benzocaine was later given to it by the American Medical Association to distinguish the American made product. Benzocaine finds a number of important uses due to its solubility in oils and grease; in suppositories and ointments, it gives prompt relief from pain. Combined in throat troches it is very effective in allaying the irritation of the throat and palate. In dentistry, benzocaine is used in desensitizing paste. Other local anesthetics of the benzocaine class are the propyl ester of paramino benzoic acid introduced as propaesin, the iso-butyl ester introduced as cycloform and the normal butyl ester called paraform.

#### CHEMICAL ENGINEERS MEET DEC. 5

The American Institute of Chemical Engineers will hold its sixteenth annual meeting at Washington, D. C., on December 5-7, with headquarters at the New Willard Hotel. A special parlor car has been reserved on the Congressional Limited for members and will leave the Pennsylvania Station, New York, at 3:25 P.M. on Dec. 4, and arrive at Washington at 8:25 P.M. Fare from New York to Washington will be \$8.14 and Pullman parlor car seat \$2.88. The program prepared by the Washington committee comprises technical papers and visits to the important bureaus of the Government. Dr. Julius Klein will speak on "Commodity and Raw Material Surveys of the Department of Commerce", Dr. C. A. Browne on "Work of the Bureau of Chemistry," and Dr. S. C. Lind on "The Relation of the Chemical Work of the Bureau of Mines to Chemical Engineering." The secretary, J. C. Olsen, Polytechnic Institute, Brooklyn, should be notified of space desired on the train.

United States Industrial Chemical Co. is building a large ammonia and potash plant in connection with its works at Curtis Bay, Baltimore, at a cost of \$1,000,000, and a fertilizer factory. The purpose is to utilize by-products in the manufacture of alcohol from molasses, among them potash and acid phosphate, and to this end phosphate rock properties have been acquired. It is expected that when the improvements are complete the corporation will take an important position in the fertilizer trade. In the past the potash produced has been disposed of to other companies. Dr. M. C. Whitaker, United States Industrial Alcohol Co., is the head of chemical operations.

Exports of ammonia and ammonium compounds, acetate of lime, calcium carbonate, bleaching powder, copper sulfate, dextrine, and potassium chlorate, were less in August than any month this year. Sodas and sodium compounds advanced from \$794,561 (28,454,019 pounds) in August, 1922, to \$882,442 (37,654,207 pounds). Foreign sales of American wood alcohol and denatured alcohol fell short of both the July, 1923, and the August, 1922 figures.

President Coolidge will be called upon in a few weeks to define his policy with respect to revision of tariff duties by executive authority vested in him under Section 315, Title III, of the 1922 Tariff Act. The Tariff Commission is completing reports for submission to the President on two cases in which a change of duty has been requested, one of which involves a chemical product.

Cheap calcium arsenate for 1924 is predicted by Ira Williams, Georgia State Entomologist, who has warned cotton growers of the state not to be stampeded into buying arsenate at high prices as new production will take care of all needs. Among others, he mentions a German concern offering to supply 200 tons of arsenate a month at a low figure.

#### Trade Notes and Personals

Parke, Davis & Co. will build a new branch in New Orleans at Camp st. and Howard av.

A. E. Anderson, member board of directors, Procter & Gamble, was recently elected president of the Cincinnati Business Men's Club.

Burton T. Bush, president of Antoine Chiris Co., New York, essential oil importers, recently returned on the Majestic from a trip to the Continent.

Glenwood Distillery, Philadelphia, has been shut down as a result of alleged violation of the Eighteenth Amendment, the sale of pure U.S.P. alcohol being carried on when only licensed to sell denatured grades.

Dr. John F. Kelley, Chemical Division, Department of Commerce, Washington, D. C., in charge of fine and medicinal chemicals, has resigned, effective Dec. 1, to become assistant to Merle Thorp, editor of "Nation's Business."

C. G. Rives, Jr., New Orleans, was named executive chairman of the Boll Weevil Menace Association, at a recent meeting in New Orleans. The association expects to raise money and carry on an educational campaign among the cotton growers.

Dixie Consolidated Graphite Co., Birmingham, Ala., capital \$1,500,000, will build works for the manufacture of finished commercial graphite products. The plant will cost about \$260,000, including equipment. C. E. Watson is president.

Frank Hemingway, director of new developments, Sherwin-Williams Co., lost his four-year-old daughter, Diana, on Nov. 19, at Cleveland, after a three days illness. The sudden death of the child who was a special favorite of Mr. Hemingway, was a shock to the friends of her father in the trade.

James E. Hancock, son of the late John F. Hancock, former head of John F. Hancock & Son Co., Baltimore, is named as sole legatee in his father's will as far as the manufacturing drug business is concerned. The balance of the estate is left to the son and a daughter, the widow to receive the income during her lifetime.

Federal Products Co., New York, has recently purchased the plant of New Orleans Industrial Alcohol Co., Westwego, La. Edward H. Brinkman, vice-president of the Federal Co., will be in charge of the New Orleans plant, which will manufacture denatured alcohol for industrial purposes and motor fuel.

Dovan Chemical Co., New York, manufacturers of diphenylguanidine, were refused a writ of certiorari by the U. S. Supreme Court, in the case of patent infringement against the National Aniline & Chemical Co. Dovan originally won in the District Court, but on the appeal by National Aniline, the Circuit Court of Appeals reversed the decision of the District Court. The Supreme Court's decision ends the Dovan suit definitely.

John J. Watson, Jr., president of International Agricultural Corp., says the reorganization plan has been approved by the three interests involved, stockholders, bondholders and bankers. "The adoption of the plan calling for reclassification of the stock and the \$9,000,000 new cash to be received from new prior preference stock put the company in a very strong financial position," he says. "It is able to take advantage of improved conditions in agricultural centers. The large advance in the selling price of cotton has greatly improved the position of uncollected past season's accounts."

## Davison Chemical Co. Stock Skyrockets

**Shares Soar to 78, A New High Record on New York Stock Exchange, and Abruptly Drop to 67, Then to 58—Oil Men Deny Wall Street Rumors—Official of Davison Company Denies Reports That Insiders Are Speculating—Previous Flurry in Stock Investigated But Committee Fails to Find Anyone Responsible for False Statements—Another Inquiry Probable—Unusual Flood of Propaganda Sent to Papers**

When the stock broke, the specialist handling it on the floor of the Stock Exchange announced that he would refuse to execute any more orders because of the wide fluctuations. He stood a chance of losing thousands of dollars owing to the sensational changes in the quotations.

Rumors have been circulated in Wall Street for several months concerning Davison Chemical. Two months ago the stock shot up to above 70, and then dropped more than 20 points the same day. The Business Conduct Committee of the New York Stock Exchange, which investigated the wild fluctuations in the stock on Aug. 30, reported that "the enormous speculation" in the stock, which brought about an advance from \$52 a share to \$72 and a drop back to \$50 a share, all within an hour, was "in no way due to manipulation." The statement added that "there was no evidence to be found that any appreciable short interest existed."

Another version of the sudden break in the shares last week was that the pool which has been operating in the stock for some time had suddenly decided to liquidate. The stock has been going up in bounds for the past week and the crash indicated that large holders had suddenly unloaded. This view found support in the fact that the price of Davison stock continued to decline, dropping again abruptly to 60 and finally touched 58, in the afternoon of Thursday.

Davison Chemical Co. stock broke eleven points on the New York Stock Exchange on Thursday, Nov. 22. The shares had reached a new high record of 78 on rumors that leading oil companies had agreed to adopt the silica gel process of refining. The drop to 67 came immediately after the publication of the following statement:

**"R. W. Stewart, chairman of the board of Standard Oil Co. of Indiana says: 'We have signed no contract with Davison Chemical. We have investigated the silica gel process two or three times.' Standard Oil Co. of New York has investigated the silica gel process and has decided not to use it."**

Large losses were recorded in brokerage houses by customers who were holding the stock. In one house a heavy trader bought a big block of the stock at the opening and just before the first break gave an order to sell it. Before his order could be executed the stock broke and he lost thousands of dollars.

W. D. Huntington, vice-president and acting head of the company during the absence of C. W. Miller, denied that any of the officers of the company were speculating in the stock and said the company could not be held responsible for the many rumors which had been sent out by manipulators. Mr. Huntington stated that although the company would not derive any dividends this year from the silica gel process, he pointed out that the Royal Dutch and the Vacuum Oil companies have entered into contracts to use the process in refining their oil.

The "Wall Street Journal" published the following, at the time the stock was manipulated in August:

Silica gel went up the hill;  
The bulls just roared with laughter.  
But gel came down,  
And broke the town—  
I wonder who they were after?

A report in "Financial America" said at that time: "Certain rumors regarding Davison Chemical Co. in connection with oil companies are ridiculed by officials of the latter. The Davison Chemical Co.'s extravagantly talked of silica-gel process is not one for making gasoline, or increasing the output, but one for treating crude gasoline to take out the discoloration, which is now done by an acid treating process by the oil refiners. Oil men generally do not regard it as important. No contract has been signed with the Pan-American Petroleum Co."

Another investigation by the Stock Exchange is expected. An effort may be made to learn the source of the flood of propaganda regarding the stock which has been sent to papers for publication immediately preceding recent advances in the stock.

Regarding the report that the specialist in Davison Chemical stock had closed up his book entirely for all orders, J. O. Straus, head of the firm of Straus & Co., one of the specialists in the stock, said after the close of the market that he did not close his books except for stop-loss orders. He pointed out that when the stock started to decline the book was already full of stop orders. Later, when he was flooded with market orders, he said, it was impossible to take additional stop orders and at the same time handle the market orders which were thrown at him from all directions. As a result the book was closed to stop orders, but, he said, they were again opened at 2:15 P. M., when the market for the shares again became orderly.

When Davison shares jumped in August the New York News Bureau Association received the following letter from C. Wilbur Miller, president of Davison Chemical Co.:

"Some time ago you reported on the news ticker that an official of the Standard Oil Co. of Indiana stated his company had tried silica gel and it had not come up to expectations.

"The Standard Oil Co. of Indiana has never tried silica gel and know nothing about it.

"I enclose statement from the Standard Oil denying they had made any such statements. I wish to know at the earliest convenience who gave you the report for publication.

" (Signed) C. WILBUR MILLER,  
"President."

### AWARDS MADE FOR WAR LOSSES

The Mixed Claims Commission in session at Washington, D. C., has awarded the following damages, with interest, for property losses by Americans during the world war: Koenig Medicine Co., \$30,000; Southern Cotton Oil Co., \$50,000; Virginia-Carolina Chemical Co., \$337,957; West Disinfecting Co., \$53,000; The Pfaudler Co., \$125,000.

San-Du-Val Products Co., Seattle, Wash., was recently organized for \$50,000 for the manufacture of a new disinfectant chemical.

Baird & McGuire, Holbrook, Mass., disinfectant manufacturers, will open a new plant in East St. Louis, Ill. early in 1924.

## GERMAN POTASH MONOPOLY BROKEN BY FRANCE AND U. S., SAYS DR. TEEPLE

Fall in Price From \$400. per Ton During the War to About \$60. at the Present Time—United States Producing 250,000 Tons a Year and Alsace 500,000 Tons

Dr. John E. Teeple, treasurer American Chemical Society, a consulting chemist who has specialized in potash, asserts that French and American production are here permanently and the German monopoly is broken. He continued: "Germany can be entirely shut off and the world can be supplied from other sources. The assertion of Germany's ability to starve any part of the world, or feed any part of the world she chooses, is now only an empty boast, as the world can now entirely feed itself without the help of her potash."

The people of this country, declared Dr. Teeple, should understand that in quality American potash is now second to none. "Yet there are those who prefer to encourage the potash production of Europe rather than that of the United States, and these critics have made great use of various statements published in the past on the toxic influence of borax in fertilizers, since the first potash put upon the market from Searles Lake did contain a somewhat larger percentage of borax than experience has since proved to be desirable.

"Research has made it possible to remove this excess borax from American potash, our post-war experience now clearly showing that small quantities of borax are not only not harmful to plant growth but in some cases have even been found beneficial.

"In 1915, the first year in which the United States made potash in sufficient quantities to be recorded, the output was about 1,000 tons of pure potash. Now, despite the post-war slump, the production is about 30,000 tons annually. Potash production in the United States reached the peak in 1918, when 54,000 tons were manufactured. And this progress has been made despite the fact that of the 128 producers in 1919 but one is left whose main product is potash, the remainder of the American supply being by-product. One of the most encouraging features of the present situation is that this is the first year in which American buyers took up all the domestic supply before buying abroad. The United States now uses about 250,000 tons of potash per year. Of this total, about ten per cent is produced at home. Potash is now worth about \$60 a ton. During the war it brought from \$300 to \$400 and over per ton."

Alsace, according to Dr. Teeple, is now producing over 300,000 ton of potash per year, and at two months' notice can increase this amount to 500,000 tons, providing a market for so much is available.

The best opinion in regard to the dividend outlook for the junior shares of Allied Chemical & Dye Corp., says the "Wall Street Journal," is that it will not be changed from the \$4 rate for some time to come. As a matter of fact in the last two years the company has been comparatively generous with its common shareholders so far as income is concerned. For year ended Dec. 31, 1921, earnings applicable to common were \$2.68 a share and in 1922 there were earnings of \$5.68 a share, an aggregate of \$7.95 a share, whereas the company actually paid out \$8 a share in the two years.

Procter & Gamble Co. has declared the regular quarterly dividend of 1½% on the 6% preferred, payable Dec. 15 to holders of record Nov. 24.

Merchants Fertilizer and Phosphate Co., Charleston, S. C. has purchased the plant of the defunct Seminole Co. at Dunn, N. C.

## SEEK CUT IN ALCOHOL TAX (Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., Nov. 28—Manufacturers and distributors of medicinal preparations and extracts will present a strong plea to Congress, in connection with the proposed tax reduction program, for relief from the war time tax on alcohol used for manufacturing purposes.

Users of industrial alcohol at present are paying a tax of \$2.20 per proof gallon. Of the total, \$1.10 was added when the present law was enacted, at which time the tax was doubled. The users insist that this was strictly a war measure and should now be eliminated along with the nuisance taxes, the removal of which has been recommended by Secretary of the Treasury Mellon.

The last advance before the \$1.10 increase, also a war tax, was 20 cents per proof gallon, and industrial alcohol users argue that they are now paying \$1.30 per proof gallon, or about \$2.47 per wine gallon war tax. Continued imposition of the war tax on alcohol is regarded by the users as discriminatory. They point out that this tax was imposed prior to the passage of the Eighteenth Amendment and that the reason for the imposition of any tax on alcohol used for manufacturing purposes has been eliminated with the coming of prohibition.

## NEED \$40,000,000 FOR PROHIBITION (Special to DRUG & CHEMICAL MARKETS)

Washington, D. C. Nov. 28—An appropriation of \$10,500,000 has been asked for prohibition and narcotic law enforcement during the next fiscal year beginning July 1, 1924. This estimate includes \$1,250,000 for the enforcement of the Harrison Act, an increase of \$500,000 over this year's allotment. The lump sum asked for by the Prohibition unit of the Bureau of Internal Revenue would be \$1,500,000 higher, if approved, than the appropriation granted for the present fiscal year ending June 30 next.

With the Treasury Department's estimated supplemental appropriation of \$28,500,000 for additional coast guard cutters and personnel, which has been approved by the President, together with \$10,000,000 included in the Treasury's estimates for ordinary coast guard maintenance, it is expected that Congress will be asked to authorize a total of \$40,000,000 to enforce prohibition, suppress illicit drug traffic and prevent rum smuggling.

## UNITED DRUG BUYS NATIONAL STORES

United Drug Co. has purchased through its subsidiary, Louis K. Liggett Co., five leading stores of National Drug Stores Corp. for cash, based on inventory values as determined by the inventory appraisers of the company. Liggett Co. has also purchased from the receivers of Miller & Strong Co., under court sanction, five additional stores, on the same basis.

These transactions bring total Liggett stores operated by United Drug Co. to 278, of which 35 have been added since Jan. 1, 1923, all of which have been paid for from earnings. The company does not owe a dollar beyond its funded debt. The company will finish 1923 with gross sales of close to \$70,000,000, the largest turnover in its history. Based on present indications final net profits, available for the 354,000 shares of common stock, should approximate between \$8 and \$9 per share.

National Boll Weevil Control Association will meet in Birmingham, Ala., Jan. 10-12, 1924.

## QUOTATIONS ON CHEMICAL STOCKS

Closing Prices for Week Ending Nov. 24

|                           | Bid     | Asked   |                        | Bid     | Asked   |
|---------------------------|---------|---------|------------------------|---------|---------|
| Air Reduction             | 67      | 67 1/2  | Heyden Chem.           | 1       | 1       |
| *Allied Chem. & D. Co.    | 66 1/2  | 66 1/2  | Hoover Electro         | 55      | 65      |
| *Allied Ch. & D., pf.108  | 108 1/2 | 108 1/2 | Hoover Electro, pf.    | 60      | 70      |
| *Am. Ag. Ch.              | 13      | 13 1/2  | *Household Products    | 30 1/2  | 31      |
| *Am. Ag. Ch., pf.         | 37      | 38      | *Int. Agricult.        | 1       | 1 1/2   |
| *Am. Chicle               | 15 1/2  | 16      | *Int. Agricult., pf.   | 6       | 6 1/2   |
| *Am. Chicle, pf.          | 52      | 53      | *Int. Nickel           | 11 1/2  | 12      |
| *Am. Cot. Oil             | 8 1/2   | 9       | *Int. Nickel, pf.      | 80      | 83      |
| *Am. Cot. Oil, pf.        | 26      | 26 1/2  | *Int. Salt             | 76 1/2  | 82 1/2  |
| *Am. Cyan.                | 83      | 86      | *Mathieson Alk.        | 40      | 41 1/2  |
| *Am. Cyan., pf.           | 73      | 75      | Merck & Co., pf.       | 62      | 70      |
| *Am. Druggist S.          | 5 1/2   | 6       | Merrimac               | 95      | 95      |
| Am. Glue                  | 82      | 85      | Mulford Co.            | 29      | 34      |
| Am. Glue, pf.             | 124     | 126 1/2 | Mutual Co.             | 150     | 150     |
| *Am. Linseed              | 17 1/2  | 18 1/2  | *National Lead         | 125     | 126     |
| *Am. Linseed, pf.         | 32      | 34      | *National Lead, pf.110 | 112 1/2 | 112 1/2 |
| *Am. Malt                 | 12      | 13      | N. J. Zinc             | 150     | 155     |
| *Am. Zinc                 | 7 1/2   | 8       | N. A. pf.              | 96      | 100     |
| *Am. Zinc, pf.            | 28 1/2  | 30      | Parke, Davis & Co.     | 80 1/2  | 84      |
| *Atlas Powder             | 52      | 53      | Penn Salt              | 89 1/2  | 90      |
| *Atlas Powd., pf.         | 84 1/2  | 90      | *People's Gas, Ch.     | 95 1/2  | 96      |
| By. Prod. Co.             | 67      | 72      | Procter & Gamble       | 124     | 128     |
| Carborundum               | 135     | 135 1/2 | Procter & Gam., pf.    | 102     | 106     |
| Carborundum, pf.          | 115 1/2 | 116     | Tenn. C. & Chem.       | 87 1/2  | 90      |
| Casino Co.                | 60      | 65      | *Tex. Gulf, Sul.       | 60 1/2  | 61 1/2  |
| Celloid Co.               | 81      | 83      | Union Carbide          | 55      | 56      |
| Celloid Co., pf.          | 107     | 110     | Union Sulphur          | 23 1/2  | 24      |
| Ches. Mfg.                | 224     | 227     | *U. S. Drug            | 76 1/2  | 77 1/2  |
| Ches. Mfg., pf.           | 111     | 114     | *U. S. Drug, 1st pf.   | 47 1/2  | 47 1/2  |
| Com'l. Solv. A.           | 29      | 30      | *U. S. Dyewood         | 38      | 41      |
| Do B.                     | 21      | 22      | *U. S. Dyewood, pf.    | 95      | 95      |
| *Corn Products            | 131     | 131 1/2 | Un. Gas Imp.           | 57 1/2  | 58 1/2  |
| *Corn Products, pf.       | 115 1/2 | 117     | Un. Gas Imp., pf.      | 55      | 55 1/2  |
| Davison Chem.             | 68      | 68 1/2  | U. S. Gypsum           | 83      | 85      |
| Dow Chem. non par.        | 46      | 47      | *U. S. Indus. Al.      | 62 1/2  | 63      |
| Dow Ch.                   | 96      | 96      | *U. S. Indus. Al., pf. | 94      | 98      |
| Du Pont de Nem.           | 128     | 129     | *Va. Car. Ch.          | 9       | 9 1/2   |
| *Du P't de Nem. Db.       | 85      | 87      | *Va. Car. Ch., pf.     | 31 1/2  | 32      |
| Eastman Kodak             | 110     | 111     | *V. Vivaudou           | 15      | 16      |
| Eastman Kodak, pf.108 1/2 | 109 1/2 | 112     |                        |         |         |
| *Freeport Tex. Sul.       | 11 1/2  | 12      |                        |         |         |
| Freep. Tex. Sul., pf.     | 91      | 93      |                        |         |         |
| *Grasselli                | 125     | 133     |                        |         |         |
| *Grasselli, pf.           | 102     | 105     |                        |         |         |
| Hercules Powder           | 106     | 110     |                        |         |         |
| Hercules Powd., pf.       | 103     | 107     |                        |         |         |

\*Listed on New York Stock Exchange

## Financial Notes

Union Carbide & Carbon Co. has declared a quarterly dividend of \$1, payable Jan. 1 to stock of record Dec. 6.

Wayne Food Products Co., Munford, New York, has increased its capitalization from \$75,000 to \$500,000.

Dixie Drug Stores, Frederick, Delaware, has changed the name to Foundation Finance Corporation and has increased capitalization from \$50,000 to \$2,000,000.

Globe Soap Co. has declared quarterly dividends of 1 1/2 per cent on the first, second and special preferred stock and of 1 per cent on common, all payable Dec. 15 to stock of record Dec. 1.

An extra dividend of 1 per cent has been declared on the capital stock of the International Salt Co. in addition to the regular quarterly payment of 1 1/2 per cent. Both dividends are payable Jan. 2 to stockholders of record Dec. 15.

Connecticut Zinc Corp., which has recently gone into the hands of a receiver has already begun plans for reorganization. The corporation has a capitalization of \$1,125,000, closely held, and owns the Oronogo Circle mine, at Oronogo, Mo., the oldest and largest and once the heaviest ore producer in the entire Joplin territory. This mine has been shut down temporarily.

Mathieson Alkali has outstanding 28,802 shares of 7% preferred stock on which a year's back dividends amounting to \$201,614 have accumulated. Net earnings for the nine months' period in excess of those for the first nine months of last year are sufficient to liquidate the back dividends and still leave a balance of over \$150,000. Regular dividends were resumed on the preferred on May 26.

## New Incorporations

## Chemical Industry

Newport Mfg. Co., Wilmington, Del., \$500,000. Coal-tar products. Corp. Trust Co. of America.

Chicago Smelting & Refining Corp., Chicago, \$100,000. Manufacture and deal in brass, ores, iron, and steel.

Damascen Chemical Manufacturing Co., New York, 150 shares common stock, no par value. G. C. Booth, H. B. Delaney, Jr., J. W. Wiggans. Attorneys, F. E. Rivers.

California Chemical Products Corp., Alhambra, Calif. \$1,000,000.

## Consuming Industries

Riddock Rubber Corp., Malden, Mass. \$250,000. Rubber products. Charles M. Riddock, C. Clifford Pierce.

Dunn Chemical Products Co., Wilmington, Del., \$1,000,000. Polishes, chemical specialties. Harold G. Dunn, Howard Joseph, Louis H. Green. Representative, Howard A. Joseph.

Pro-Tol Co., New York, \$300,000. Medicines. L. Von Gaertner, B. Hays, T. D. Hopper. Attorneys, Dittenhoeffer & Fisher, 1,482 Broadway.

National Self-Carbonating Fountain Co., Wilmington, Del., \$300,000. Make syrups, flavors.

Nickoon Famous Indian Remedies, Wilmington, Del., \$100,000. Manufacturers of medicines.

Regent Finance Corp., Dover, Del., \$100,000. Make and present motion pictures.

Gold Seal Laundry Co., Brooklyn, \$115,000. D. Brande, E. Kobrin, L. Ginsberg. Attorney, A. B. Nathan, 110 William st., New York.

Marnita Chemical Co., Wilmington, Del., \$100,000. Manufacture medicines.

Dunn Chemical Products Co., Wilmington, Del., \$1,000,000. Cleansing and polishing materials.

New Process Rubber Co., Wilmington, Del., \$1,200,000. Tires. Corp. Trust Co. of America.

Brockway Laboratories, Dover, Del., \$450,000. M. E. Dorn, I. M. Britton, J. S. Schluenk. Corp. Trust Co. of America.

Union Waxed & Tissue Paper Co., Newark, N. J., 6,000 shares no par value. Rae W. Shapiro, R. Flaster. Representative, Bilder & Bilder, 790 Broad st.

Universal Soap Mfg. Co., New York, \$50,000. Soaps, washing compounds. N. Allen, G. A. Vardalachos. Representative, Hirschman & Roeder, 1475 Broadway.

Ceylon Rubber Products, Boston, \$50,000. Rubber goods. Arundel W. Faulkner, Arthur H. Holbrook.

Gold Seal Shellac Co., New York, \$20,000. Shellacs, varnishes. N. and R. Dickstein, H. Cohen. Representative, B. E. Kopolman, 230 Broadway.

Nitro Soap Works, Nitro, W. Va., \$15,000. Soaps, washing compounds. Walter A. and Frank A. Rebhan.

Right Polish Co., Newark, N. J., \$50,000. Metal polishes. Alexander Hagen, Hoffman and William S. Potter, 132 New Jersey Railroad ave.

Goodyear Rubber Plantations, Wilmington, Del., \$6,615,000. Corp. Trust Co. of America.

John F. Dydley & Co., Wilmington, Del., \$100,000. Make toilet preparations.

Paramount International Rubber Co., Wilmington, Del., \$2,500,000. Tires. Corp. Trust Co. of America.

Neutral Co., Wilmington, Del., \$250,000. Drug stores. Artemas Smith.

Magnum Rubber Products Corp., Wilmington, Del., \$1,000,000. T. L. Croteau, M. A. Bruce, and A. M. Hooven. Corporation Trust Co.

Cor-Lock Tube Co., Ohio, \$30,000. Rubber goods. J. E. and J. R. Stewart, H. C. Bender, F. M. Meagher, and C. L. Deerker. Great Western Rubber Products Co., San Francisco, Cal., \$300,000. Rubber goods. A. T. Smith, H. L. McGregor, and H. W. Kruger, 827 Chronicle Bldg.

Henderson Resilient Tire Co., Wilmington, Del. C. B. and A. S. Bishop, and E. H. Feustel.

Inter-Continental Tire & Rubber Co., Indianapolis, Ind., 200,000 shares no par common stock. Tires and tubes. J. D. Wiggins, S. T. Davis, and P. Haynes.

Mallard Rubber Co., Cleveland, Ohio, \$200,000. J. H. Cox, A. M. Evans, R. S. Christian, F. Sanders, and W. T. Brown.

Indiana Paint & Pigment Co., Wilmington, Del., \$1,000,000. Corporation Trust Co. of America.

Edna Wallace Hopper, Wilmington, Del., \$100,000. To make toilet preparations. Corporation Trust Co. of America.

Associated Laboratories, New York, \$250,000. Drugs, chemicals. A. G. Thorne, C. A. True, L. R. Bachrach. Attorneys, Koenig, Sittenfeld & Aranow, 27 Cedar st.

Dr. Dickel's Serum Laboratory, New York, 200 shares preferred stock, \$100 each; 100 common, no par value, active \$500. Dr. Dickel, H. Hesse, T. S. B. Nielson. Attorneys, Briessen & Schrenk, 56 Church st.

Monarch Leather Co., Wilmington, Del., \$2,500,000. Corp. Trust Co. of America.

Perfection Toilet Preparations Co., New York, \$125,000. Jos. C. Dietsche, 317 26th st., Guttenberg.

## The Heavy Chemical Market

Current Spot Quotations of Heavy Chemicals, page 1492

### BARIUM PRODUCTS CONTINUE FIRM

**Domestic Carbonate in Good Demand—Copper Sulfate Sales for Future Delivery—Arsenic Lower and Less Activity—German Potash Salts Advanced—Ammonium Sulfate Weak—Tin Oxide Higher—Copperas Easier**

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| Barium Nitrate, $\frac{3}{4}$ c lb. | Barium Hydrate, $\frac{1}{2}$ c lb. |
| Tin Oxide, 2c lb.                   |                                     |
| Arsenic, white, $\frac{3}{4}$ c lb. |                                     |

#### Advanced

#### Declined

Trend of the Market

|                               | Last               | Last               | Last               | War               | Pre-                    |
|-------------------------------|--------------------|--------------------|--------------------|-------------------|-------------------------|
| Today                         | Week               | Month              | Year               | Peak              | War                     |
| Acetic Acid, Glacial...lb.    | \$12 $\frac{1}{4}$ | \$12 $\frac{1}{4}$ | \$12 $\frac{1}{4}$ | \$12              | \$19 $\frac{1}{2}$ \$07 |
| Sulfuric Acid, 66 deg. ton    | 15.00              | 15.00              | 15.00              | 14.00             | 55.00 20.00             |
| Ammonium Sulfate...100 lbs.   | 2.90               | 2.90               | 3.00               | 3.20              | 7.50 2.65               |
| Bleaching Powder...100 lbs.   | 1.25               | 1.25               | 1.25               | 2.00              | 9.50 1.50               |
| Copper Sulfate ...100 lbs.    | 4.80               | 4.80               | 4.90               | 5.75              | 20.00 4.50              |
| Potash Caustic, Imp...lb.     | .07                | .07                | .07                | .06 $\frac{1}{2}$ | .87 .08                 |
| Soda Ash, 58 p.c....100 lbs.  | 1.94               | 1.94               | 1.94               | 2.00              | 3.50 .60                |
| Caustic Soda, 76 p.c.100 lbs. | 3.66               | 3.66               | 3.66               | 3.70              | 9.50 1.42               |
| Potassium Bichromate ...lb.   | .00 $\frac{1}{2}$  | .00 $\frac{1}{2}$  | .00 $\frac{1}{2}$  | .10               | .65 .06 $\frac{1}{2}$   |
| Sodium Prussiate ....lb.      | .11 $\frac{1}{2}$  | .11 $\frac{1}{2}$  | .13 $\frac{1}{2}$  | .20 $\frac{1}{2}$ | 1.25 .18                |
| Average .....                 | 2.996              | 2.995              | 3.013              | 3.047             | 10.79 2.99              |

General conditions in the market for industrial chemicals have shown little change during the week. The total volume of business passing would no doubt be considered fairly satisfactory but among individual sellers business is reported more or less spotty. Except for a few items supplies are plentiful and keen competition is keeping prices at low levels. Domestic material is offered freely while stocks of imported chemicals in many cases are selling below costs of importation. Contract business in basic chemicals is reported satisfactory. Alkalies and sulfuric acid are in steady demand.

In the open market prices are not wholly firm and sales are being made at concessions in order to obtain the business. Bleaching powder prices are holding at the latest reduction. Arsenic has quieted down and prices have eased off both on spot and for shipment. Ammonium sulfate continues weak in the face of large supplies and competition from imported material. Barium products have been firm on good demand and limited stocks. Barium nitrate is higher. Copper sulfate is moving for future delivery. Copperas is weakening. Caustic potash is lower abroad. German potash salts have been advanced. Sodium prussiate is holding at recent low levels. Sodium sulfide is moving slightly better. Tin oxide is higher due to increased metal costs.

**Acid, Acetic**—Prices holding at recent levels with demand somewhat routine. Makers quote 28 per cent at \$3.38@\$3.63 in barrels; 56 per cent, \$6.75@\$7.00; seventy per cent, \$8.38@\$8.63; glacial, \$12.78@\$13.53.

**Acid, Muriatic**—Demand is not very active and stocks are more than adequate at present. Prices are quoted at \$1.00@\$1.10 in tanks for 20° at works and \$1.25@\$1.50 in carboys; 22° named at \$1.75 in carboys.

**Acid, Oxalic**—Buying has been increasing and prices are firmer than recently. Domestic material named at 12clb. works and 12 $\frac{1}{2}$ c@13clb. on spot. Imported quoted at 12c@12 $\frac{1}{2}$ clb.

**Acid, Sulfuric**—All factors report a steady and increasing demand for this acid. Prices show no change

over previous levels which held 66° in tanks at works at \$15.00@\$16.00 ton; drums at \$1.10@\$1.25 and carboys at \$1.25@\$1.50; 60° in tanks at \$9.00@\$11.00 ton. Oleum named at \$17.00@\$19.00 for 20 per cent in tanks. Drums, \$1.25@\$1.50.

**Acetone**—Holding at \$1.15@\$1.20 for the methyl and 25c@25 $\frac{1}{2}$ clb. for the C.P. Acetone oil is scarce and strong at \$1.25@\$1.30.

**Ammonium Sulfate**—Supplies are being offered freely with prices ranging from \$2.90@\$3.00 in bulk at works; single bags at \$3.00@\$3.05; f.a.s. in double bags, \$2.90@\$3.40 according to seller.

**Ammonium Chloride**—Imported white material is generally quoted at 6 $\frac{1}{2}$ c@6 $\frac{1}{2}$ clb. Domestic material named at 7 $\frac{1}{2}$ c@8clb. Imported grey is quoted 7 $\frac{1}{2}$ c@8clb. with domestic 8c@8 $\frac{1}{2}$ clb.

**Arsenic**—A little activity has been reported but on the whole the market is quiet at present. Prices have declined slightly but are firmer at the new levels. Spot material is obtainable at 13 $\frac{1}{2}$ c@14clb. while shipments are quoted at 13 $\frac{1}{4}$ c@14clb. from Germany and Japan. Some interest is being manifested in the withdrawal from the contract with Georgia by a new arsenic company for a large amount of calcium arsenate at 10clb. Inquiries for calcium arsenate are increasing and sales have been reported around 13clb.

**Barium Products**—Continue firm at recent levels. Domestic carbonate is well sold at \$70.00 ton and imported is quoted at \$68.00@\$70.00 for shipment. Spot at \$75.00 ton. Chloride is named at \$80.00 ton at works and \$85.00 on spot. Imported at \$82.50@\$85.00 ton. Nitrate is higher at 8 $\frac{1}{4}$ c@8 $\frac{1}{2}$ clb. Hydrate, 5 $\frac{1}{2}$ c@6clb.

**Bleaching Powder**—Contracts were being placed at \$1.25 per 100lbs. in standard drums at works. Prompt business also being sold at \$1.25. Most sellers were quoting these prices. Demand appears to be improving after several months of dullness in business and keen competition among sellers.

**Copper Sulfate**—Sales have been put through for delivery next Spring. Prices are generally quoted at \$4.60@\$5.00 in carlots for domestic depending upon the position. Imported material is offered at 4 $\frac{1}{2}$ c@5clb. with the German at the low figure and English at 4 $\frac{3}{4}$ c@5clb. Small lots generally quoted 4 $\frac{1}{2}$ c@5clb.

**Copperas**—Demand appears to have fallen off somewhat while supplies are more than adequate. Prices are easier in some directions. Range at \$18.00@\$20.00 ton in bulk at works, \$21.00@\$23.00; bbls., \$23.00@\$25.00.

**Glauber's Salt**—Steady improvement in demand with prices unchanged at \$1.30@\$1.75 according to quantity in barrels. Imported material at 85c@90c.

**Potash, Caustic**—Shipment prices in Germany are reported more attractive at 6 $\frac{1}{2}$ clb. No spot business was being done at 7c@7 $\frac{1}{2}$ clb. depending upon the seller and quantity. Domestic material is off the market temporarily.

**Potassium Bichromate**—Demand has shown no decided improvement and business is along routine lines. Some contract business is reported but buying has been mainly for immediate requirements. Prices are holding at 9 $\frac{1}{2}$ c@9 $\frac{1}{4}$ clb.

**Potassium Prussiate**—Generally quiet with prices holding at 25c@26clb. for imported yellow and 22 $\frac{1}{2}$ clb.

for shipment. Domestic at 26clb. Red named at 55c @58clb.

**Potassium Chlorate**—Imported named at 7½clb. for the powdered and 8clb. for the crystals. Domestic material at 8½c@9clb.

**Soda Ash**—Contract deliveries are proceeding regularly while consumers have been contracting for next year's requirements. Contract prices are named at \$1.38 for 58 per cent in carlots of bags at works. Less than carlot business on spot at \$2.04 in bags, delivered, and \$2.29 in barrels.

**Soda Caustic**—Business is along broad lines with contract deliveries progressing steadily and many contracts closed for next year. Contract prices are named at \$3.10 for 76 per cent in carlots at works. Dealers quote standard brands at \$3.76@\$3.91 for small lots delivered.

**Sodium Bichromate**—Makers are quoting prices at 7½c@7½clb. according to seller and quantity. Demand is not large at present and competition for business continues keen.

**Sodium Prussiate**—With prices at low levels business has been improving. Several contracts were reported at 11clb. for imported material while spot prices are holding at 11½c@12clb. Shipments are named at 11½clb. Domestic makers are quoting 13½clb.

**Sodium Sulfide**—Improved buying is reported with prices at a variance according to seller. Solid is named at 3c@3½clb. and broken at 4½c@5½clb. Crystals are quoted from 2c@2½clb. at works.

Exports of acetic acid in September amounted to 29,296 pounds, the bulk going to Cuba, Mexico and Venezuela; wood alcohol and denatured alcohol 77,351 gallons, the heaviest shipments being to England; formaldehyde 458,115 pounds, going mainly to England, Japan and Cuba; acetate of lime 222,772 pounds, all of which was taken by Belgium.

The Interstate Commerce Commission did not find the rates unreasonable on crude sulfur and crude brimstone in carloads from Baltimore, to Newell, Pa. and Willow, Ohio, according to a decision just handed down, in connection with case No. 14062 of the General Chemical Co. against the Baltimore & Ohio Railroad Co., et al.

Freeport Texas Co. reports for the nine months ended Sept. 30, 1923, gross sales of \$4,613,996, against \$3,381,007 in the previous year. After payment of all expenses and charges there was a surplus of \$688,553, equal to \$1.08 a share on the \$6,350,000 capital stock of \$10 a share par value outstanding.

Two advances in potash salts have been announced by leading importers of German material. Potassium sulfate is now named at \$45.85 ton and manure salts at \$27.00 ton. The old prices were \$43.67 and \$25.75 a ton respectively.

Acid tank cars of 140,000 lbs. capacity—said to be the largest ever used for sulfuric acid shipments—have recently been put into commission by the Mathiessen & Hegeler Zinc Co., La Salle, Ill.

J. O. Hammitt, E. V. O'Daniel and W. S. Stowell have been elected directors of the American Cyanamid Co., succeeding S. D. Crenshaw, P. C. Hoffman and W. E. Fackert, resigned.

Grasselli Chemical Co. has moved the St. Louis office into the new Planters Building. This building is the formerly famous Planters Hotel.

#### INSECTICIDE MAKERS MEET DEC. 10

The tenth annual convention of the Insecticide and Disinfectant Manufacturers Association will be held in New York City, Monday and Tuesday, Dec. 10 and 11. Headquarters will be at the Hotel Astor.

Dr. Haywood of the Insecticide and Fungicide Board, Washington, D. C. will tell of the work of his department. Members will be taken through a modern chemical works in the vicinity of New York. On Monday evening, Dec. 10, a banquet will be held at the hotel with music and song.

The expense of the convention will be budgeted and divided pro rata among those present, with the exception of the special guests who will be taken care of by the Association. There will be no extra assessments to cover special features. Members expecting to attend are requested to write for reservations to Benjamin Newman, United Sanitary Products Co., 65 Fifth Ave., New York.

#### PRESIDENT FAVORS NITRATE PLAN

President Coolidge is said to favor the plan of Representative Madden of Illinois to have the Government build a steam power plant in connection with the Muscle Shoals project to attract a new bid from Henry Ford for the Alabama water power development. The President regards the production of large quantities of nitrate through fixation of nitrogen as an outstanding national need, both from the military and agricultural standpoints. He thinks that the need for the production of cheap fertilizers for use on the farms and the manufacture of nitrates for the national defense is so important that the Government would be justified in taking over the Muscle Shoals project even if it was operated at a loss.

Roessler & Hasslacher Chemical Co., New York, in their November announcement say: "It is not desired and a boom cannot be expected at the present time. Basic conditions continue sound and conservatism prevails. The present method of handling purchases, preventing accumulation of unnecessary stocks, later often dumped for financial reasons, will permit producers turning at a given rate on an even scale. Uncertainty of the foreign situation continues having its effect and we should not be surprised to see higher prices on some materials for which we are still largely dependent on imports from Central Europe."

National Gold Arsenic Corp. has notified J. J. Brown, State Commissioner of Agriculture and chairman of the Georgia State Board of Entomology, that they will be unable to carry out their contract for supply 100,000 tons of calcium arsenate, at 10c a pound, for delivery over a period of five years. The corporation has made an alternative proposition to supply a million pounds of calcium arsenate at 10c, another million pounds at 11c and three million pounds at 12c a pound. Mr. Brown has notified the farmers of the inability of the corporation to carry out its contract and expresses doubt of its ability to carry out the plan in its entirety.

Gulf States Chemical & Refining Co., Montgomery, Ala., will put into operation the electrolytic process for the manufacture of calcium arsenate developed by A. M. Kennedy, engineer, Alabama Power Co., and Dr. Stewart J. Lloyd, department of chemistry, University of Alabama. The company expects to have its product available for use on the 1924 Alabama cotton crop.

The report of Callahan Zinc-Lead Co. for the quarter ended Sept. 30 last, showed a surplus of \$13,219, compared with a deficit in the preceding quarter of \$42,667.

## The Intermediate and Dye Market

Current Spot Quotations for Intermediates, see Chemicals, page 1488

### BENZENE AND TOULENE EASIER

Lower Prices Being Quoted in the Market—Little Change in Other Crudes—Phenol and Cresylic Acid Steady—Pyridine Supplies Improved—Intermediates in Routine Demand—Beta-naphthol Firm at Recent Advance

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced  
No Advances  
Declined

| Benzene, pure, 1c gal.    | Toluene, 2c gal.    |      |           |            |           |          |         |
|---------------------------|---------------------|------|-----------|------------|-----------|----------|---------|
|                           | Trend of the Market |      | Last Week | Last Month | Last Year | War Peak | Pre-War |
| Benzene, pure .....       | gal.                | \$21 | \$22      | \$22       | \$30      | \$1.10   | \$25    |
| Naphthalene flake .....   | lb.                 | .06½ | .06½      | .05½       | .06½      | .16      | .03     |
| Phenol, Spot .....        | lb.                 | .26  | .26       | .26        | .35       | .150     | .08     |
| Toluene .....             | gal.                | .23  | .25       | .25        | .30       | ..       | ..      |
| Aniline Oil .....         | lb.                 | .16  | .16       | .16        | .16       | 1.40     | .10½    |
| Alpha-naphthylamine ..... | lb.                 | .35  | .35       | .35        | .30       | .25      | ..      |
| Benzaldehyde .....        | lb.                 | .75  | .75       | .75        | .55       | ..       | ..      |
| Betanaphthol .....        | lb.                 | .25  | .25       | .21        | .24       | .150     | .08     |
| Dimethylaniline .....     | lb.                 | .40  | .40       | .40        | .39       | 1.80     | ..      |
| Paranitroaniline .....    | lb.                 | .74  | .74       | .74        | .73       | 1.58     | .18     |
| Average .....             |                     | .342 | .345      | .341       | .338      | ..       | ..      |

Changes in the market for coal tar crudes and intermediates are few and far between. The situation in light oil distillates is, perhaps, the only interesting feature at the present time. This market has been weakening steadily due mainly to the recent reductions in gasoline in competition with which motor benzol is sold. The volume of benzol sold for fuel purposes has been increasing steadily until this field represents the greatest outlet for benzol from the coke ovens. Demand for industrial purposes has declined steadily in recent years and the volume of benzol used for solvent purposes has fallen off. Dullness in the dyestuff industry has also accounted for a lessened demand the last few months. With steel mills operating at about three quarters of capacity production of benzol from the coke ovens is quite large and competition in this field has been showing a steady increase. The market at present is weaker and sales are being made from one to two cents below recent levels. Toluol and solvent naphtha are in practically the same positions as benzol. Xylol is steady owing to the smaller production, less competition and demand. Phenol and cresylic acid are unchanged on routine demand. Naphthalene is being inquired about for future delivery. Pyridine supplies have improved with recent importations.

Intermediates are moving slowly in a quiet market. Demand is spotty as consumers come in for small lots of this or that for immediate shipment. Beta-naphthol has been holding steady at the recent advance. Aniline oil is unchanged on routine demand. H-acid is moving fairly well. Ortho-toluidine has been easier since demand fell off a few weeks ago. Paranitroaniline is subject to some competition.

#### Coal Tar Crudes

**Benzene**—The market has weakened and sales are being made at about one to two cents below recent quotations. Occasionally lots are offered cheaply which upsets the market, though most sellers are quoting the pure at 21c@23c per gallon in tanks. Drums are usually 5c higher. The 90% motor benzol is named at 20c@21c per gallon. Demand is not very large at present as con-

sumers curtail their requirements with the approach of inventory time. Supplies are ample and competition keen.

**Cresylic Acid**—Stocks are adequate for present requirements with demand somewhat along routine lines. Prices are quoted at recent levels with 97-99% material at 83c@85c per gallon. Dark 95% held at 75c.

**Naphthalene**—Demand has not become active yet but inquiries have been increasing for business for future delivery. Flake material is named at 6c@7clb. according to seller and quantity. Halls at 7c@8clb. Dyestuff naphthalene at 5½c@6clb. Imports at New York have been increasing the last few weeks.

**Phenol**—Little change in the situation with makers quoting large drums at 26clb. In the open market sales are reported slightly under these quotations at 25c@25½clb.

**Pyridine**—Recent imports have increased supplies and prices are lower than a few weeks ago. Shipments are reported at \$4.25@\$4.50 per gallon while spot material is held at \$5.25@\$5.50 according to seller.

**Toluene**—The position is not as firm as recently and is quoted at 23c@24c per gallon in tanks. Drums are named at 28c@30c according to quantity.

**Xylene**—While no large supplies are on hand they are adequate for the regular demand and prices are steady at 50c@55c per gallon.

#### Intermediates

**Acid, Anthranilic**—Little activity with demand along routine lines. Technical held at 96clb. and refined at \$1.20lb.

**Acid, Broenner's**—Named at \$1.55lb. on quiet demand.

**Acid, Cleve's**—Holding steady at \$1.00@\$1.10 with consumers buying in conservative quantities.

**Acid, Gamma**—Demand is mainly routine in nature with prices quoted at \$1.70@\$1.80lb. though a good order would no doubt find these prices shaded.

**Acid, H**—Regular demand is keeping supplies moving quite steady but no large buying has yet developed. Prices are holding at 75c@80clb. according to quantity.

**Acid, Laurent's**—Quoted at 90clb. in a routine way.

**Acid, Neville & Winther's**—Holding at \$1.10@\$1.15lb. according to quantity.

**Acid, Salicylic**—Named at 32c@33clb. for technical in a quiet market.

**Aniline Oil**—Little change in the situation with demand at low ebb and prices holding at 16c@17clb. Aniline salt named at 23c@24clb.

**Alpha-naphthylamine**—Holding at 35c@37clb. according to quantity and seller.

**Benzaldehyde**—Makers quoting 75c@80clb. Supplies are moving regularly but demand has shown a decline.

**Benzidine**—Occasional sales are being put through at 80c@84clb. depending upon the seller and quantity.

**Beta-naphthol**—Makers are holding prices at 25c for carlot quantities and 26clb. for small lots. Resale material is less available and sales have been reported at 25½clb. when it could be obtained.

**Dimethylaniline**—Business is reported quiet with sales mainly of small quantities at 40clb. Less than carlots

business is quoted at 39clb. and carlots at 38clb. but practically no carlot buying is taking place.

**Dinitrobenzene**—Makers quoting 19c@20clb. according to quantity.

**Metatoluylenediamine**—Named at 87c@90clb. as to quantity.

**Meta-phenylenediamine**—Holding at 95c@98clb.

**Nitrobenzene**—Crude steady at 9c@9½clb. and the redistilled at 9½c@10½clb.

**Ortho-toluidine**—Holding at 13c@15clb. according to seller and quantity.

**Para-nitraniline**—Competition is quite keen with makers quoting 73c@74clb. and odd lots slightly under these levels.

**Para-toluidine**—Makers quoting 85c@90clb. on routine demand.

#### GERMANS AGAIN SEEK U. S. DYE MARKET

Terms of the agreement between the German Dye Kartel and the Rhineland High Commission by which the Germans agree to reopen certain plants in occupied territory have been cabled to Secretary Hoover, Department of Commerce, by Trade Commissioner Breithut, at Paris. Mr. Breithut's cable said that an accord had been signed on Nov. 10 between the Rhineland High Commission and the dyestuffs factories in the occupied territory providing for the renewal of deliveries of dyes for reparations account without payment by the Allies. The accord further provides for the legalizing of the French and German seizures of dyestuffs. Provision is made that the German factories shall accept the ordinances and instructions of the High Commission covering exports to free markets and shipments to unoccupied German territory.

The agreement involves 50,000 workers. Export taxes are to be reduced, but it is not believed that any large quantities of dyes will be exported to the United States beyond the specialties not made in America. Professor Bosch, managing director of Badische Anilin- und Soda-fabrik, Ludwigshafen, is on his way to the United States to re-establish his company's pre-war interests and connections. He expects during his visit to lay foundations for a large expansion of the German aniline dye industry.

The American Association of Textile Chemists and Colorists will be asked by the Federal Specifications Board to assist in drawing up standard specifications for testing fastness to light, perspiration and washing of various textile fabrics. A conference of the textile sub-committee of the Board and the research and standardization committee of the National Council of Cotton Manufacturers last Wednesday checked over a list of 1,500 tentative specifications for various textiles and selected several that will be carried to completion.

How a great chemical organization has been built up and maintained by co-operation between the companies and its employees, is told in the current issue of the Du Pont Magazine, published by E. I. du Pont de Nemours & Co., Wilmington. Description of working and living conditions, recreation arrangements, clubs, and other facilities for the health and happiness of employees is described.

India imported 9,922,018 pounds of coal-tar dyes from Germany during the fiscal year ended March 31, 1923; 1,326,261 pounds from the United Kingdom; 1,002,955 pounds from Belgium; and 762,391 pounds from the United States.

#### PHENOL WASTE IS NOT POISONOUS BUT TASTE IS BAD, SAYS DR. STIMSON

**U. S. Health Service Co-operating With State Authorities and Manufacturers To Protect Rivers From Pollution—Methods Often Produce Valuable By-Products**

(*Special to DRUG & CHEMICAL MARKETS*)

Washington, D. C., Nov. 28—Pollution of inland waters by manufacturing plants is being brought under control gradually through voluntary co-operation of manufacturers with Federal and state authorities, said Dr. A. M. Stimson, of the U. S. Public Health Service. Satisfactory methods have been developed for preventing such pollution with little expense and in some instances to the benefit of the manufacturers themselves through the derivation of valuable by-products.

Such utilization of wastes that formerly were poured into the streams should be encouraged and no arbitrary action taken to restrict manufacturing plants that have shown a disposition to protect the public interest, in Dr. Stimson's opinion. Last Spring complaints were received from several states bordering the Ohio river concerning pollution of the water by phenol wastes. As the matter was regarded as of considerable importance the Public Health Service invited representatives of all states confronted with a similar problem to a conference.

It developed that in the majority of states there was no occasion for considering preventive measures, in others that pollution was sporadic and that conditions were acute only in some parts of a few Eastern states. Ohio apparently was the most seriously affected. A resolution was adopted at the Washington conference requesting that the Public Health Service investigate pollution by phenol wastes from the standpoint of its effect on health and that the Bureau of Mines consider the engineering aspects of the matter.

The Public Health Service recently has been advised that the situation in Ohio now is well in hand through the voluntary co-operation on the part of the manufacturers. Dr. W. H. Frost, chief of the stream pollution laboratory of the Public Health Service at Cincinnati, has been instructed to ascertain during the coming year the prevalence of this kind of pollution along the Ohio river and study its effect on health.

There is nothing poisonous in pollution of waters by phenol wastes, he said, and it affects health only in an indirect manner. Where this water is used to supply cities, it is filtered and chlorinated in the usual manner to prevent the spread of infectious diseases. The chlorine and the phenol waste, even if the latter is present only in minute quantities, form a chemical compound that is very unpleasant to the taste, although it is not deleterious to health.

The result is, however, that many people who do not buy bottled water in such cities, have recourse to other water supplies that may be contaminated by disease germs although of natural taste. Actually the Public Health Service has no direct administrative jurisdiction because of the interstate character of the problem, said Dr. Stimson, but it is bringing it to the attention of state authorities and offending manufacturers, and this moral pressure has had considerable influence in bettering conditions.

Sulfogene Carbon 2B Conc., a bluish shade of sulfur black, has been placed on the market by E. I. du Pont de Nemours & Co., Wilmington, Del. This product is said to be distinctive in its shade and has a tone of desirable brilliancy.

## The Oil Market

### Current Spot Quotations of Oils,

#### LINSEED OIL STRONGER AND HIGHER

Improved Demand and Higher Seed Prices Affect Market—Cottonseed Oil Irregular—Castor Oil Advanced—Olive Oil Strong—Coconut Oil Higher—Cod Oil Up—Sperm Oil Lower—Turpentine Declines

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

|   |  | Advanced                              |  |  |  |  |  |
|---|--|---------------------------------------|--|--|--|--|--|
| Castor Oil, $\frac{1}{2}$ c. lb.          |  | Lard Oil, Prime, $\frac{1}{2}$ c. lb. |  |  |  |  |  |
| Coconut Oil, Ceylon, $\frac{1}{2}$ c. lb. |  | Linseed Oil, 2c gal.                  |  |  |  |  |  |
| Cod Oil, 2c gal.                          |  | Neatsfoot Oil, 20°, 1c lb.            |  |  |  |  |  |
|   |  | Declined                              |  |  |  |  |  |
| Oleo Oil, No. 2, $\frac{1}{2}$ c. lb.     |  | Sperm Oil, 5c gal.                    |  |  |  |  |  |

|                                    | Trend of the Market |           |                   |                   |                   |                    |
|------------------------------------|---------------------|-----------|-------------------|-------------------|-------------------|--------------------|
|                                    | Today               | Last Week | Last Month        | Last Year         | War Peak          | Pre-War            |
| Cod Oil, N. F. ...., gal.          | \$70                | \$68      | \$68              | \$60              | \$1.25            | \$36 $\frac{1}{2}$ |
| Degras, American, bbl. ...., lb.   | .044                | .044      | .044              | .044              | .25               | .03%               |
| Lard, No. 1, ...., gal.            | .79                 | .79       | .79               | .79               | 2.90              | .92                |
| Menhaden, crd., bbls. ...., gal.   | .50                 | .50       | .47 $\frac{1}{2}$ | .55               | 1.20              | .33                |
| Neatsfoot, 20 deg. c.t. ...., gal. | 1.32                | 1.24      | 1.24              | 1.35              | 3.45              | .95                |
| Red Oil, distilled, ...., lb.      | .094                | .094      | .094              | .10               | .17               | .07                |
| Stearic Acid, T.P. ...., lb.       | .144                | .144      | .144              | .12 $\frac{1}{2}$ | .33               | .12                |
| Coconut Ceylon, bbls. ...., lb.    | .10                 | .10       | .10               | .08 $\frac{1}{2}$ | .90               | .14                |
| Linseed, carlots, ...., gal.       | .094                | .094      | .10               | .08 $\frac{1}{2}$ | .25               | .08                |
| Olive, denatured, ...., gal.       | 1.10                | 1.10      | 1.10              | 1.15              | 4.50              | 1.05               |
| Peanut, refined, ...., lb.         | .16                 | .16       | .15 $\frac{1}{2}$ | .12 $\frac{1}{2}$ | .30               | .08                |
| Soya Bean, bbls. ...., lb.         | .11                 | .11       | .11               | .12 $\frac{1}{2}$ | .19 $\frac{1}{2}$ | .07                |
| Average                            | 0.465               | 0.455     | 0.458             | 0.461             | 1.30              | 0.362              |

With offerings somewhat limited the market in vegetable, animal and fish oils is holding firm. Inquiries have been numerous but except for a few items actual business has not been of large proportions. Most of the buying has been for immediate delivery, though in some cases supplies were not to be had. Vegetable oils, especially, are stronger. Linseed oil has been in better demand and prices have been advanced. The increase, however, had a tendency to slow up the buyers. Flaxseed prices have been advancing in the Northwest as colder weather will delay shipments on the Lakes. Cottonseed oil has been irregular with little net change in prices. Another advance has been announced in castor oil. Coconut oil is stronger and higher on spot. Olive oil is in a strong position and buyers have been covering their future requirements. Italy is said to be short of oil and is buying from Spain at higher prices than American importers will bid. Soya bean oil continues scarce and high in price.

Menhaden is being held at recent quotations and stocks are said to be small. Fishing is over in the North and Chesapeake waters and supplies are expected to decrease from now on. Cod oil is in small supply and higher in price. Whale oil is stronger. Sperm oil has been reduced. Tallow is steady while lard oil and neatsfoot oils are higher. Oleo oil is easier. Turpentine is lower. Rosins are steady.

#### Vegetable Oils

**Castor Oil**—A further advance has been announced by prominent crushers. No. 1 named at 14 $\frac{1}{2}$ clb. and No. 3, 14clb. Unsettled conditions in seed are understood to be the cause for recent advances.

**Chinawood Oil**—Until the new crop oil begins to arrive the market is expected to remain firm. Demand has been fair with spot prices holding at 21c@21 $\frac{1}{2}$ clb. in barrels. Shipments from China named at 21c@21 $\frac{1}{2}$ lb. and from the Coast in tanks at 20 $\frac{1}{2}$ c@20 $\frac{1}{2}$ clb.

#### Tallows, Greases, page 1505

**Coconut Oil**—Offerings were not plentiful and holders were asking slightly higher prices on spot for Ceylon. Tanks named at 8 $\frac{1}{2}$ clb. and barrels, 10c@10 $\frac{1}{4}$ clb.; Cochin, 9 $\frac{1}{2}$ c@9 $\frac{1}{2}$ clb. in tanks and 10 $\frac{1}{4}$ c@11clb. in barrels. Manila in tanks at Coast, 8 $\frac{1}{2}$ c@8 $\frac{1}{2}$ clb.

**Cottonseed Oil**—Reports on cotton ginning and oil consumption from the Government were considered bullish but business was not materially affected in oil. The market has been irregular with net changes in prices small. Sales have not been of large volume. Crude oil quoted 9 $\frac{1}{2}$ c@9 $\frac{1}{2}$ clb. P.S.Y. opened the week at 11.40, spot, 11.20 for Nov. and up to 11.75@11.95 for June.

**Linseed Oil**—Better buying is reported but the advance to 92c for spot carlots and Dec. oil slowed up buyers. Jan. named at 91c and Feb.-Apr., 90c. Smaller lots named at 95c@98c gal. London linseed oil, 43s. Antwerp, 385f. Seed prices have advanced in the Northwest with Nov. Winnipeg opening this week at \$2.15; Dec., \$2.02; May, \$2.07 $\frac{1}{2}$ ; Duluth, Nov., \$2.45; Dec., \$2.43 $\frac{1}{2}$ ; Jan., \$2.45 $\frac{1}{2}$ ; May, \$2.44. Buenos Aires, higher at \$1.82.

**Olive Oil**—Stronger market reported with Italy buying Spanish oil and quotations to importers here advancing. Prices advanced 15 pesetas for commercial oil last week. Buying has been active for delivery over first few months of 1924. Fooths are firm with offerings at 8 $\frac{1}{2}$ c@8 $\frac{1}{2}$ clb. according to position.

**Palm Oil**—Supplies are limited and prices firm though no buying movement has been noted. Lagos at 7 $\frac{3}{4}$ c@8clb.; Niger, 7 $\frac{3}{4}$ c@7 $\frac{1}{2}$ clb.

**Peanut Oil**—In limited supply with crude at 10 $\frac{1}{2}$ clb. and refined at 16clb.

**Rapeseed Oil**—Quoted at 76c@77clb. on quiet demand.

**Soya Bean Oil**—Business is restricted owing to the smallness of offering in the market. Little is to be had on spot while at the Coast sales are reported at 9 $\frac{1}{2}$ c@10clb. in tanks.

#### Animal Oils

**Greases**—Poorer grades are inactive while demand for better grades is fair. White, 11 $\frac{1}{2}$ clb.; yellow, 6 $\frac{1}{2}$ clb.; Brown, 6 $\frac{1}{2}$ clb.; house, 6 $\frac{1}{2}$ clb.

**Lard Oil**—Prime edible has been advanced to 16 $\frac{1}{4}$ clb. while the rest of the list is unchanged at 13 $\frac{3}{4}$ clb. for off prime; extra, 12 $\frac{1}{4}$ clb.; extra No. 1, 11clb.; No. 1, 10 $\frac{1}{2}$ clb.

**Neatsfoot Oil**—Demand for the better grades has improved and prices are quoted higher at 17 $\frac{1}{2}$ clb. for 20°; pure, 14 $\frac{1}{4}$ clb.; extra, 11clb.

**Oleo Oil**—No. 2 is easier at 11 $\frac{1}{2}$ clb. while No. 1 and No. 3 are steady at 15 $\frac{1}{2}$ clb. and 10 $\frac{1}{2}$ clb.

**Red Oil**—Holding at recent levels on fair demand. Distilled and saponified at 8 $\frac{1}{2}$ c@9 $\frac{1}{2}$ clb. in tanks and barrels.

**Stearic Acid**—Business along routine lines with makers quoting single pressed at 12 $\frac{1}{4}$ c@13 $\frac{1}{4}$ clb.; double pressed, 14c@14 $\frac{1}{4}$ clb.; triple pressed, 14 $\frac{1}{4}$ c@14 $\frac{1}{2}$ clb.

**Tallow**—Producers holding at recent levels with sales being made at 8c@8 $\frac{1}{2}$ clb.

#### Fish Oils

**Cod Oil**—Supplies of Newfoundland are not large and sellers are firm at 70c@72c per gallon. Buying has been sufficient to keep the limited supplies at low levels and

in some cases sellers were unable to quote for the present.

**Menhaden Oil**—With fishing practically over and supplies limited pressers are holding firm at 50c per gallon for crude in tanks at works. Refined oils are named at 65c@68c for the light strained and 68c@71c for yellow bleached; extra bleached, 73c gal.

**Sperm Oil**—Has been reduced to 94c gal. for the 38° and 89c for 45° in barrels New York.

**Whale Oil**—Stronger though unchanged at 77c for natural winter; winter bleached, 79c and extra bleached, 81c gal.

#### Naval Stores

**Turpentine**—Lack of demand and prices easier at decline to 94c per gal. ex-yard, New York. Steam distilled at 84c gal. Savannah, 86½c gal.

**Rosins**—Better buying reported both for domestic and foreign account. Prices unchanged with B to K, \$5.80; M, \$5.90; N, \$6.15; WG, \$6.75; WW, \$7.00.

Only a slight change was made in foreign sales of zinc oxide, during the third quarter of 1923, compared with 1922, but when compared with the nine months of 1922, a 36% gain in value and a 45% gain in quantity was made, the total shipments in the January-September 1923 period equaling \$584,394 (8,169,928 pounds). Foreign shipments of lithopone during the past quarter fell below those for 1922, but for the three quarters were above in value and slightly below in quantity.

New special finishes prepared at the request of a large furniture manufacturer of the country are announced by the paint department of the du Pont Co. The specials are known as No. 15005 White Rubbing Brushing Enamel and No. 15117 White Rubbing Spraying Enamel. Both these specials can be rubbed in forty-eight hours after application. It is not necessary to rub No. 15005, as it gives a perfect imitation of rubbed finish when dry.

The total value of the products of the United States soap industry in 1921, according to the Census of Manufactures, was \$243,045,827 against \$337,879,913 in 1919 and \$135,304,499 in 1914. Hard soaps accounted for \$164,069,970 in 1921. Imports in 1921 were 3,199,488 lbs., valued at \$580,740 and exports in 1921 were valued at \$9,037,285 against \$21,300,926 in 1919.

The Cremona varnish secret has been discovered in an Italian manuscript dated 1716, by Lucio Gallicanne Italy, a maker of stringed instruments. The varnish was invented by the Van Eyck brothers, Holland, and the secret of its manufacture was carried to Italy by Antonello da Messina.

Acme Carbon Mfg. Co., Monroe, La., will call for bids at an early date for its new plant, comprising between 25 and 30 one-story structures, each 12 x 120 feet, with capacity for about 5,000 lbs. of carbon black per day. L. N. Karche is president and general manager.

Paramount Lubricant Co. of Denver, Col., will enter the wholesale gasoline, lubricating oils and grease business at Salt Lake City. The local branch will be managed by Ralph Walker.

Increased demand for corn starches and dextrines is explained by growing use of these materials for "home brewing" purposes.

Eustis Pennock & Co., Boston, manufacturer of starch products, has awarded a contract for the construction of a new plant at Quincy, Mass., estimated to cost \$50,000.

#### SOAP MANUFACTURER ON WORLD TRIP

Viscount Leverhulme, British soap manufacturer, arrived on the Majestic, last week, on a trip around the world, accompanied by his son, Hon. William Hulme Lever, Jonathan Simpson, a life-long friend, and five directors of his companies. Two directors will accompany Lord Leverhulme to Australia, New Zealand, China, Japan, India and Egypt. The other directors and his son will go as far as Vancouver, B. C. and return to England by the Majestic, sailing, Dec. 15. Lord Leverhulme discussed Great Britain's war debt, the tariff and prohibition. He said that the tariff program proposed by Premier Baldwin was a quack political remedy for unemployment. He believed that Lloyd George would return to power, but was not sure that it would occur at the coming general election. England would pay her war debt, he said, whether other countries paid their debts to Britain or not. He thought the United States would be better off with free trade, and he expressed the opinion that Americans could not be made prohibitionists merely by removing the temptation.

#### BROADER DEMAND FOR NAVAL STORES

Foreign demand for American naval stores continued broadening until an aggregate value of \$19,688,866 for the first nine months of 1923 was attained, an increase of 46% over the corresponding period of 1922. The sales amounting to \$7,259,454 in the third quarter, surpassed those for the first and second quarters. Rosin improved 59% from \$5,430,871 (601,780 barrels) in January-September, 1922 to \$8,636,552 (825,796 barrels) in January-September, 1923, but during the past quarter, the sales were below those for the preceding quarters. The United Kingdom with 231,699 barrels worth \$2,148,143 was still our best customer although not taking such a large percentage as formerly. Germany still held second place with 179,783 barrels valued at \$1,618,588, and Brazil third place.

A rise in both quantity and value characterized the outward movement in spirits of turpentine both for the nine months when figures were 8,781,786 gallons, valued at \$9,688,256 and for the third quarter, 4,268,685 gallons, \$4,090,841. The United Kingdom received over one-half of the total or \$4,929,199 (4,766,746 gallons) and the Netherlands, was our second best customer with 788,541 gallons, \$821,028.

#### MANIPULATION OF DAVISON CHEMICAL

Commenting on Davison Chemical, S. S. Fontaine, financial editor of the "New York World" says: "It would not take many more such glaring examples of manipulation of the boldest sort as that which was witnessed in Davison Chemical last week to weaken what little confidence the public still retains in the honesty and fair play of the market sponsors who use the machinery of the Stock Exchange to toss about their speculative shuttlecocks. It is undoubtedly true that the wild gyrations of the stock, that entailed very heavy losses to the unfortunate margin players who were so ill advised as to engage in operations in the elusive specialty, could scarcely have been prevented by the governors under the existing rules, though they have been known in the past to extend to themselves plenary powers and discretion almost limitless when dealing with emergencies that required prompt action, such, for instance, as the summary suspension of trading in Piggly Wiggly and Stutz."

Exports of wood oil from China during August were 5,179,516 pounds, of which the United States received 5,104,800 pounds, England, 46,583 pounds; Japan, 7,600 pounds.

## The Fine Chemical Market

Current Spot Quotations of Fine Chemicals, page 1484

### QUICKSILVER ADVANCES 11% IN SPAIN

Owing Mainly to Recent Heavy American Purchases—Potassium Permanganate Lower—Alcohol Active—Imported Citric Acid Lower—Antipyrine Steady—Inquiry for 28 Tons Cream Tartar Reported

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced  
No Advances

Declined

Acid, Citric, Imp., 1c lb.      Menthol, \$1.00 lb.  
Acid, Tartaric, Imp., 1c lb.      Potassium Permang., Imp., 1/2c lb.

|                           | Trend of the Market |           |            |           |          |         |
|---------------------------|---------------------|-----------|------------|-----------|----------|---------|
|                           | Today               | Last Week | Last Month | Last Year | War Peak | Present |
| Acetanilid                | \$ .32              | \$ .32    | \$ .32     | \$ .35    | \$2.00   | \$ .20  |
| Acid Citric, Import       | .47                 | .48       | .48        | .50       | 1.25     | .45     |
| Caffeine Alkaloid         | 4.00                | 4.00      | 4.00       | 3.75      | 18.00    | 3.65    |
| Calomel, American         | 1.25                | 1.25      | 1.25       | 1.15      | 3.43     | .90     |
| Camphor, Jap., ref.       | .86                 | .86       | .86        | .87       | .91      | .41     |
| Iodine, Resublimed        | 4.55                | 4.55      | 4.55       | 4.40      | 5.00     | 3.75    |
| Menthol                   | 14.00               | 15.50     | 20.00      | 10.00     | 13.50    | 3.00    |
| Potassium Bromide, Cryst. | .26                 | .26       | .26        | .26       | 4.30     | .80     |
| Quinine Sulfate, Imp.     | .50                 | .50       | .50        | .50       | .50      | .25     |
| Sodium Salicylate         | .40                 | .40       | .40        | .47       | 4.25     | .27     |
| Strychnine Sulfate        | .68                 | .68       | .84        | .84       | 2.05     | .50     |
| Average                   | 2.73                | 2.87      | 3.03       | 2.05      | 5.92     | 1.56    |

The disturbing factor in the fine chemical market is that the firm situation has not been accompanied by an increase in buying. While manufacturers are in such a state of indecision, they are not inclined to speed up production. There seems to be no disposition to anticipate. The possibility of having to pay more in the immediate future for duplicate orders, does not act as an urge to buy. The slowness with which stocks have moved has reduced the volume of business somewhat, and dealers are anxious to show small inventories, which are soon to be taken. Considerable shopping around has been noted during the past three weeks, indicating that consumers are taking advantage of the slightest shading from generally quoted prices.

Replacement cost of mercury from Spanish mines is now \$62 per flask laid down in New York. The London market has been higher than spot for some time owing to recent heavy purchases by American importers. Recent imports of potassium permanganate have resulted in cheaper offerings on spot. Imported citric acid has declined owing to small demand and accumulation of goods. Successful bidder on a 28-ton inquiry for cream tartar is reported to have shaded 22½clb. spot.

Acetanilid—Quoted at 32c@34clb. spot by makers, and 30c@31clb. by second hands.

Acid, Acetylsalicylic—Makers report an active market at 75c@85clb. spot as to seller, and limited amount of resales available at 72½clb. London states that demand is greater than supply, and that most makers are sold ahead for some time to come. Quoted from 3s 6d to 3c 9d per pound.

Acid, Citric—Imported has declined and now quoted at 47c@48clb. spot both for crystal and powdered due to slight accumulation of stocks and desire of holders to unload. Domestic named at 49clb. spot for crystals.

Acid, Tartaric—Imported easier at 27c@28clb. spot for crystals, and 28c@29clb. for powdered. Demand slow and imports heavy. Domestic unchanged at 32½c lb. spot. London reports that dull market still prevails.

Alcohol—Recent advance was generally expected in

the trade, and several sources are looking forward to another increase in near future. No. 1 specially denatured quoted at 48c@50clb. for drums, No. 5 completely denatured at 47c@49clb. for drums, and No. 6 completely denatured at 46c@48clb. spot for drums.

Aloin—Quoted at 90c@95clb. spot for U.S.P. goods.

Amidopyrine—In active demand at \$4.60@\$5.00lb. spot as to seller and quantity. London quotes 17s per pound

Antipyrine—Steady at \$2.35@\$2.50lb. spot as to seller.

Atropine—Alkaloid quoted at \$7.50@\$8.00 oz. spot and sulfate active at \$4.00 oz.

Bay Rum—Named easy at \$2.50@\$2.75 gal. for goods denatured with salicylic or tartar emetic.

Bismuth Subnitrate—Market firm at \$2.90lb. by makers, and \$2.80lb. from resale quarters.

Bromides—Imported in small demand at 17½c@18½clb., 16c@17clb., and 18c@19clb. for ammonium, potassium, and sodium, respectively. Domestic prices unchanged at former levels.

Camphor—Japanese slabs quoted firm at 86½c@87c lb. spot with shipment named at 77½c@87c. c.i.f. New York with possibilities of shading import price on firm offers. Domestic at 93clb. spot for barrels. During past week 100 cases were entered at New York from Hamburg, 200 cases from Shanghai, and 100 drums from Japan.

Castor Oil—U.S.P. firm and active at 14clb. spot for barrels.

Cod Liver Oil—Spot quoted steady at \$24.00@\$25.00 bbl. for Norwegian goods with tendency to firm up in near future owing to recent buying for late delivery. Last week saw 275 barrels imported at New York, which are probably "sold to arrive."

Cream Tartar—Imported quoted at 23½c@24clb. spot with some quarters shading these prices on firm business. Reports are heard that a 28-ton order was lost on a 22½clb. spot quotation. Domestic named at 25½c lb. spot.

Creosote—U.S.P. goods quoted at 40c@42clb. spot and carbonate at \$1.80@\$2.00lb.

Formaldehyde—Quoted easy at 11clb. c/l works with possibilities of shading these figures on firm business. Demand dull.

Gelatin—U.S.P. quoted steady at 85c@90clb. spot.

Glycerin—C.P. in fair demand at 16½c@17clb. spot in drums, and 18c@18½clb. in cans. Inquiry reported active in dynamite at 16½c@16½clb.

Guaiacol Carbonate—Quoted firm at \$5.00@\$5.25lb. spot with tendency to higher rather than lower figures. London reports supplies scarce, in fact, not much is available on the whole Continent.

Hexamethylene—Domestic quoted at 75c@77½clb. spot, and imported at 68c@73clb. as to seller and quantity.

Iodine—Named at \$4.35@\$4.50 gal. for U.S.P. tincture.

Menthol—Quoted lower at \$14.00@\$14.50lb. spot as to quantity. However, market is expected to firm up on any sustained inquiry, owing to limited supplies. January-February shipment quoted at \$9.60lb. c.i.f. New York.

Mercury—Spanish mines have increased price 11 per cent, which makes replacement from this market equal

to \$62.00 flask owing to recent heavy purchases by American importers. Heretofore, London bought in Spain and then sold to America. London quotes £9 17s per flask ex-warehouse with tendency to higher figures. Spot quoted at \$60.50@\$61.00 flask.

**Podophyllin**—Makers quote \$6.00@\$6.25lb. spot with limited supplies available in second hands at \$5.25@\$5.75lb.

**Potassium Permanganate**—Imported has eased off and now quoted at 16½c@17clb. spot owing to recent heavy importations. Arrivals are reported to have been out of line with consumption. Domestic named at 17c@17½clb. f.o.b. works. During past week 394 drums were entered at New York.

**Quinine Sulfate**—Quoted at 47½c oz. from resale quarters. Last week 59 cases were entered at New York.

**Saccharin**—Named at \$1.90@\$2.10lb. as to quantity. Demand active.

The National Drug Trade Conference will meet at the Washington Hotel, Washington, D. C., on Dec. 6. Samuel C. Henry, secretary of the N.A.R.D., is president of the Conference; H.C. Christensen, Chicago, vice-president; and A. Homer Smith, Sharp & Dohme, Baltimore, is secretary-treasurer. The Conference consists of the following organizations: National Association of Retail Druggists, National Wholesale Druggists' Association, American Drug Manufacturers' Association, American Pharmaceutical Association, American Conference of Pharmaceutical Faculties, American Proprietary Association, American Pharmaceutical Manufacturers' Association and National Association of State Board Commissioners.

The Drug & Chemical Square Club's monthly meeting at 1947 Broadway, New York, on Nov. 15, was attended by 600 members and visitors. Fifty-two new candidates were initiated. Among those present were: Professor Hugo Schafer, of the New York College of Pharmacy; H. B. Smith, of Brooklyn College of Pharmacy; J. J. Kallman, of Lehn & Fink; and representatives from Merck & Co., Norwich Pharmacal Co., J. B. Williams Co., American Druggists Syndicate, and Louis K. Liggett Co. The election of officers will take place at the next meeting, which will be held at the Waldorf-Astoria on Thursday, Dec. 13.

A gift of \$2,500 a year for three years for the purpose of creating the first research fellowship in connection with the newly organized Institute of Meat Packing at the University of Chicago has been made by Arthur Lowenstein, vice president Wilson & Co. The research work will be carried on under Professor E. O. Jordan, chairman of the Department of Bacteriology of the University. Mr. Lowenstein is one of the special lecturers in the Institute of Meat Packing at the University and chairman of the Committee on Scientific Research of the Institute of American Meat Packers.

Leading importers in New York who bid on a 28 ton lot of cream tartar required by a Philadelphia consumer last week, report that they lost the business at 22½clb. for immediate shipment from spot stocks New York.

Dr. Charles H. Herty, president, Synthetic Organic Chemical Manufacturers' Assn., spoke Nov. 19 in Montreal, Canada, before the Society of Chemical Industry.

Anheuser Busch Co., St. Louis, are now manufacturing corn syrup and starch. The first shipment is reported to have just been made from the plant.

#### CITRATE OF LIME CONTROL A FAILURE

The Operations of the Camera Agrumaria of Messina, which has had the monopoly of the sale of citrate of lime, have been decidedly unsuccessful, according to American Commercial Attaché H. G. MacLean, at Rome. This semi-official organization has been taking over the entire production, making payment to the producers at a price fixed annually by the Ministry of Commerce, and has only succeeded in accumulating large stocks of citrate and debts, which on May 31 amounted to 86,508,000 lire. There are two principal reasons for this unsatisfactory situation. First—The only interest of the producers was that of bringing pressure to bear on the Government to fix the price at which the citrate is taken over at as high a level as possible. Second—In view of the fact that the selling price has also been fixed by the Government there has been no flexibility and it has been impossible to adjust prices to correspond with changes in the condition of the market in such a way as to stimulate purchases.

The producer has been making money and it has made no difference to him whether or not stocks were accumulated in the warehouses of the Camera, while the latter has been to a large extent powerless to take any action that would relieve its difficult position.

#### AGRICULTURAL CHEMISTS HOLD ELECTION

(*Special to DRUG & CHEMICAL MARKETS*)

Washington, Nov. 28—Dr. R. E. Doolittle, chief, Central District, Bureau of Chemistry, Chicago was elected president, Association of Official Agricultural Chemists, for the ensuing year at the annual meeting, Hotel Raleigh, Washington, last week. Among the speakers, was Dr. Harvey W. Wiley, formerly chief, Bureau of Chemistry, and honorary president of the association. He emphasized the need for strong chemical, dye, and medicinal industries in the United States as means of preparedness. Secretary of Agriculture Wallace addressed the convention on the need of research and its importance. Altogether about 300 official chemists, health directors, and the like from federal, state, and city governments attended the three day convention. Numerous papers on all phases of chemistry in its connection with the public needs and health were heard. Dr. C. A. Browne, chief, Bureau of Chemistry, Washington, was elected vice-president. Dr. W. W. Skinner, assistant chief of the bureau, was named secretary-treasurer.

#### QUICKSILVER ORDERS EXCEED STOCKS

Commitments for quicksilver for shipment during December-January from Spain amount to 17,000 flasks while reports state that about 4,000 flasks represent the current spot stocks there, according to a leading importer in New York. This situation is nothing to be alarmed over, however, as stocks in London are heavy and consuming demand both abroad and here is at a minimum. Neither manufacturers of mercurials, powder makers, nor other consumers appear interested at present. This, according to the importer, is the only factor which prevents the market from moving to \$65 or \$66. Prices are \$60.50 flask spot with a probability of \$60.00 on sight of firm orders from consumers. Any real buying, however, would likely stiffen sellers' views.

Western Chemicals Co., Los Angeles, California, is to build a railroad from the Santa Fe line to its sodium sulfate deposit in Yavapai county, Arizona, not far from Prescott. A refinery is already under construction, having capacity of 300 tons daily. Orders for 1924 from manufacturers of paper, soap and glass exceed the expected output.

## The Crude Drug Market

Current Spot Quotations of Crude Drugs, page 1503

### MEXICAN SARSAPARILLA UP ON SPOT

Dock Strikes Holding Up Shipments—Agar Agar Lower—Buchu Leaves Easy—Dandelion Root Advances Sharply—Insect Powder Strong—Lycopodium Higher—Wild Cherry Barks Firm

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

|                             |  | Advanced                        |  |  |  |  |  |
|-----------------------------|--|---------------------------------|--|--|--|--|--|
| Arnica Flowers, 1c lb.      |  | Sarsaparilla Root, Mex., 1c lb. |  |  |  |  |  |
| Cumin Seed, Morocco, 2c lb. |  | Spikenard Root, 1c lb.          |  |  |  |  |  |
| Lycopodium, 2c lb.          |  | Valerian Root, 1c lb.           |  |  |  |  |  |
|                             |  | Declined                        |  |  |  |  |  |
| Agar Agar, 5c lb.           |  | Manna, Small Flakes, 3c lb.     |  |  |  |  |  |
| Ergot, 2c lb.               |  | Poppy Seed, Dutch, 1c lb.       |  |  |  |  |  |
| Hembane Leaves, 1c lb.      |  | Thyme, Spanish, 1c lb.          |  |  |  |  |  |

#### Trend of the Market

|                            | Today   | Last Week | Last Month | Last Year | War Peak | Pre-War |
|----------------------------|---------|-----------|------------|-----------|----------|---------|
| Aconite Root, U.S.P.       | \$ .50  | \$ .50    | \$ .50     | \$ .23    | \$ .90   | \$ .12  |
| Buchu Leaves, Short.       | .90     | .90       | .90        | 1.05      | 4.00     | .85     |
| Cantharides, Russian       | 1.25    | 1.25      | 1.75       | 2.40      | 9.00     | 2.10    |
| Cocculus Indicus           | .03 1/2 | .03 1/2   | .03 1/2    | .03 1/2   | .85      | .03     |
| Ergot, Spanish             | .38     | .38       | .40        | .60       | 4.50     | .54     |
| Insect Powder, pure        | .68     | .68       | .62        | .65       | 1.00     | .28     |
| Ipecac, Cartagena, powd.   | 2.60    | 2.60      | 1.90       | 1.70      | 4.50     | 1.35    |
| Nux Vomica                 | .05     | .06       | .06 1/2    | .07       | 1 1/4    | .07     |
| Opium, gum                 | 8.00    | 8.00      | 8.00       | 6.75      | 30.00    | 5.00    |
| Rhubarb Root, H. D.        | .37     | .37       | .40        | .45       | 1.75     | .15     |
| Tragacanth, No. 1, ribbon. | 1.45    | 1.45      | 1.48       | 1.80      | 6.00     | 1.50    |
| Wild Cherry Bk., thin nat. | .13     | .11       | .11        | .09       | .21      | .07     |
| Average                    | 1.36    | 1.36      | 1.34       | 1.34      | 5.28     | 1.00    |

Although numerous scarcities on spot continue to force prices for scarce items upward, inventory-taking time is beginning to make itself felt by a general slowing down in buying. Importers of crude drugs stand between the generally higher cost to import and the temporary refusal of consumers to pay stiffer prices. Several commodities are entirely out of the market, but are being quoted for nearby arrival. Weak spots and strong ones, advances and declines have been about evenly divided. Some opinions vary, but the trade in general thinks that absorption of stocks over the past three months has been exceptionally active. With stocks on hand reduced somewhat, and with prices tending to remain more or less firm, lower prices do not seem possible, according to a number of factors in the trade.

The bottom appears to have been reached in Mexican sarsaparilla root. The limited demand for agar agar has caused an easier market on spot. Buchu leaves, while quoted at 90c@95clb. spot, can be purchased under these figures. Spot stocks of dandelion root are scarce with practically no offerings from abroad coming forward. Insect powder is quoted firm for shipment. Lycopodium is now quoted inside at 37c@39clb. spot. All grades of wild cherry bark are reported strong.

Aconite Root—Quoted firm at 50clb. spot.

Agar Agar—All grades have declined and now quoted at \$1.65@\$1.70lb. spot for No. 1, and \$1.50@\$1.60lb. for No. 3 owing to small demand at the moment. Shipment unchanged at \$1.08lb. c.i.f. New York for No. 1, and 97clb. for No. 3. Reports are heard that new crop will be 20 per cent less than old. London quotes 5s 9d per pound for No. 1.

Aletris Root—Quoted steady at 60c@62clb. spot.

Aloes—In active demand for Curacao especially at 10 1/2c@11clb. spot, and Cape in good supply a 9c@10clb.

Althea Root—Cuts firm and active at 23c@25clb. spot.

Anise Seed—Spanish generally quoted at 16c@17clb. spot with some houses offering at 15 1/2clb. The reaction of firmer shipment prices has not as yet reached this market. Star easy at 12c@12 1/2clb. spot.

Arabic Gum—Amber sorts easy at 13c@13 1/2clb. spot, and powdered U.S.P. material named at 21c@22clb.

Arnica Flowers—Firm at 13c@15clb. spot although limited quantities are available at slightly lower figures.

Arrowroot—New arrivals of St. Vincent quoted at 16c@18clb. spot.

Balsams—Peru dull at \$1.75@\$1.80lb. spot, and Oregon fir in good supply at \$2.15@\$2.25 gal. with tendency for country to firm up.

Belladonna Leaves—Lower owing to competition at 18c@18 1/2clb. spot. Root at 12c@13clb.

Buchu Leaves—Quoted at 90c@95clb. spot with possibility of shading these figures on firm business.

Cardamom Seed—All grades tending to scarcity with little supplies offered for shipment. Quoted at \$1.50@\$2.00lb. spot for bleached, \$1.65@\$1.75lb. for decorticated, and \$1.50@\$1.75lb. for green grindings.

Cascara Sagrada—Quoted at 27c@30clb. spot for new bark, and 28c@32clb. for old bark as to seller and quantity. One of the houses that has not been quoting for the past two months, is now offering in fair sized quantities.

Chamomile Flowers—Roman steady at \$1.00@\$1.10lb. spot as to quantity, and Hungarian easy at 8 1/2c@9clb.

Clover Tops—Steady at 27c@29clb. spot.

Cloves—Zanzibars quoted firm at 35c@37clb. spot. Considerable difficulty has been reported in getting supplies through the Customs.

Cubeb Berries—Dull at 70c@75clb. for whole, and 75c@78clb. for powdered.

Damiana Leaves—Buying flurry appears to have subsided. Quoted lower at 13c@15clb. spot.

Dandelion Root—Spot has advanced sharply and now quoted at 28c@30clb. for limited supplies only. Practically nothing offered from abroad, according to reports. Last week 46 bags were entered at New York.

Elm Bark—Select quoted over wide range at 26c@31clb. as to seller and quantity. Powdered at 23c@24clb.

Ergot—Lower at 36c@38clb. spot owing to small demand and desire of holders to unload.

Gentian Root—Quiet at 8 1/2c@9clb. spot.

Ginger—African quoted firm at 15 1/2c@16clb. spot. Offerings from abroad have been withdrawn temporarily. Japanese at 17c@17 1/2clb.

Insect Powder—Spot quoted at 63c@70clb. as to seller and quantity. The house quoting the lower price says that they are not getting the business even at this figure. November-December shipment of flowers quoted at 47c@48clb. c.i.f. New York.

Ipecac Root—Cartagena firm at \$2.25@\$2.35lb. spot for whole, and \$2.60@\$2.70lb. for powdered.

Japan Wax—Spot named at 16c@16 1/2clb. November-December shipment quoted at 15 1/2c@16clb. c.i.f. New York.

Lycopodium—Quoted higher at 37c@39clb. spot owing to reduction of stocks.

Manna—Small flakes lower at 39c@41clb. spot. Large flakes off market.

Saffron Flowers—Spanish generally quoted at \$36.00 @ \$38.00lb. spot with limited quantities available at \$35.00lb. American at 90c@95clb.

Sarsaparilla Root—Mexican has firmed up on spot at 27c@29clb. due to dock strike, which is holding up shipments. If this condition lasts for any length of time, higher prices ought to prevail here, according to the trade. Honduras at 61c@65clb.

#### NEW NARCOTIC RULING EFFECTIVE DEC. 1

(*Special to DRUG & CHEMICAL MARKETS*)

Washington, D. C., Nov. 28.—Commissioner Blair of the Internal Revenue Bureau has issued the following statement regarding exports under the narcotic law, to importers, manufacturers, producers, compounders and wholesale dealers in narcotics:

"The last paragraph of articles 83 and 88 Regulations No. 35, (revised) is hereby amended, each to read as follows:

"In the case of exports the date and exporter's number of the application for permission to export, approved by the Secretary of the Federal Narcotic Control Board will be entered in the first and second columns, respectively. The columns headed, Registry Number, Class and District may be left blank.

"This decision shall be effective Dec. 1, 1923, all monthly narcotic returns rendered for November, 1923, and subsequent months to be prepared as required by said articles as hereby amended."

The Bureau of Internal Revenue has also revoked part of a former treasury decision regarding the narcotic law. In its statement to Collectors and others, the Bureau says:

"T. D. 3473, approved May 5, 1923, is hereby revoked and the first sentence of paragraph 1 of T. D. 3460, approved April 6, 1923, is hereby amended to read as follows:

"1.—On and after Jan. 1, 1924, only order forms for opium, etc., of the series of 1923 may be filled.

"Paragraph 6, of said decision is also amended to read as follows:

"6.—This decision shall take effect at once except as to paragraphs 2 and 3 which shall take effect January 1, 1924; provided, however, that forms of the 1923 series which may be made out prior to that date must be prepared in accordance with paragraph 2. Collectors are hereby authorized to fill all requisitions (Forms 679) received on and after November 26, 1923, with forms of the 1923 series which may be used by the purchasers as soon as received. Persons qualified to fill orders (see art. 109 $\frac{1}{2}$ ) are hereby authorized to accept forms of either series during the period November 26, 1923 to December 31, 1923, inclusive, if presented for filling."

#### DRUACHEM CLUB FROLIC DRAWS 200

About two hundred members and guests attended the annual Fall Frolic of the Druachem Club, New York drug and chemical organization, held Tuesday evening at the Hotel Brevoort, New York. During the dinner and following it, some twelve acts of vaudeville from various cabarets on Broadways were put on for the entertainment of the guests. As the frolic was planned originally without speakers, there were no formal addresses although a few impromptu talks were made by prominent members. The committee in charge of the frolic this year was composed of B. M. Spencer, of B. M. Spencer & Co., and B. J. Gogarty, of J. L. Hopkins & Co.

#### MID WEST CRUDE DRUG STOCKS LOW

End of Season Points to Higher Prices—Government Aiding Clean Drug Campaign

(*Special to DRUG & CHEMICAL MARKETS*)

St. Louis, Mo., Nov. 28—Hope that the open fall season would materially increase the stocks of native crude drugs in the primary market here has not been fulfilled. Although the weather has continued mild in collection districts, but little addition has been made to shipments, with the exception of Culver's root, which always comes in late since its stem is recognizable long after other plants and leaves have died down in the autumn. Some 30,000 pounds of this drug shipped from here for export through New York last month depleted local stocks, but later shipments have brought up the supply so that spot prices here have eased off to 32c f.o.b., and no repetition of the skyrocketting prices of last year, which reached 65c, is expected.

Skullcap herb has been receiving buyers' attention lately, an inquiry for 2,000 lbs. from a regular 500 lb. purchaser indicating an appreciation of the low stocks here. Helonias is also scarce at 82c. There is a good inquiry for wahoo and wild cherry thick. Aletris at 60c and pinkroot at 90c are also in demand and stocks are not large. The mandrake crop is marketed and is short. The two leading dealers here are quoting 17 $\frac{1}{2}$ c and 18c, and agree that any considerable orders would cause a positive shortage.

The efforts of local dealers—notably the St. Louis Commission Co. and Eugene Donzelot & Son—to educate diggers to the importance of cleaning roots before shipping them to market is being taken up by Ernest R. Smith, in charge of the St. Louis section of the Bureau of Chemistry, Department of Agriculture. This energetic federal officer is tackling the problem as one of adulteration of medicinal supplies, and within the territory under his jurisdiction is doing a good work instructing collectors of drugs in this matter and issuing warnings to shippers where inspection shows careless gathering or packing. There has been a gradual, marked improvement during the past few years, and according to Mr. Smith, the greatest trouble now is from what might be called casual shippers who send drugs not to the regular drug commission houses, but to the fur and other dealers who handle a few drugs as a side line.

#### SENGER AND MERZ DIVIDE AGENCIES

(*Special to DRUG & CHEMICAL MARKETS*)

Chicago, Nov. 28—C. A. Senger and L. V. Merz, who under the corporate style of C. A. Senger & Co. have represented a selected line of drugs, fine chemicals and essential oils as Chicago sales agents have divided these agencies and will operate in the future independently.

L. V. Merz, representing H. R. Lathrop Co., crude drug; Palmer Lime & Cement Co., chalk; Block Drug Co., proprietaries; retains till Jan. 1 the old firm name and the offices and warehouse at 59 W. Austin ave., Chicago. C. A. Senger has moved to 22 W. Kinzie st., where he represents P. R. Dreyer, essential oils, and Fries & Fries, aromatic chemicals. Greater specialization and the individual attention of the principals is the object of the change.

That the sharp advance of 4c per gallon in alcohol prices last week by leading distillers was not the last this year, appears to be the general impression among sales agents and dealers in the Middle West. Raw materials are higher, particularly in the Peoria, Ill. district. Another advance of 2c per gallon before the middle of December would not surprise the trade.

## The Essential Oil Market

Current Spot Quotations of Essential Oils, 1508, Aromatic Chemicals 1509

### OILS LEMON AND ORANGE EASY ON SPOT

Interest at Minimum—Oil Bergamot Softer—Oil Citronella Scarce—Oil Cloves Strong—Oils Nutmeg and Pimento Higher—Oil Wormseed Firmer—Heliotropin and Terpineol Easier

#### PRICE CHANGES IN NEW YORK (Stocks in First Hands)

##### Advanced

Oil Bois de Rose, 25c lb. Oil Nutmeg, 5c lb.  
Oil Caraway, 25c lb. Oil Pimento, 10c lb.  
Oil Citronella, Ceylon, 10c lb. Oil Sassafras, Nat'l., 10c lb.  
Oil Wormseed, 50c lb.

##### Declined

Oil Bergamot, Coppers, 5c lb. Heliotropin, Dom., 10c lb.  
Oil Cubebs, 50c lb. Terpineol, Dom., 2c lb.

#### Trend of the Market

|                          | Today  | Last Week | Last Month | Last Year | War Peak | Pre-War |
|--------------------------|--------|-----------|------------|-----------|----------|---------|
| Oil Bergamot             | \$2.75 | \$2.85    | \$2.65     | \$3.10    | \$7.00   | \$5.00  |
| Oil Citronella, Ceylon   | 1.00   | .85       | .70        | .47       | .92      | .60     |
| Oil Cloves               | 2.40   | 2.40      | 2.10       | 2.25      | 3.70     | 1.40    |
| Oil Lemon, Italian       | .75    | .75       | .70        | .70       | 1.70     | 2.00    |
| Oil Peppermint, Nat.     | 3.15   | 3.20      | 3.15       | 2.55      | 9.00     | 2.25    |
| Oil Sandalwood, E. I.    | 7.15   | 7.15      | 7.35       | 6.75      | 13.00    | 5.25    |
| Oil Sassafras, Artif.    | .38    | .38       | .40        | .42       | 1.00     | .26     |
| Benzaldehyde, U.S.P.     | 1.80   | 1.50      | 1.50       | 1.40      | 5.15     | 1.50    |
| Coumarin                 | 4.60   | 4.50      | 4.50       | 4.00      | 31.00    | 2.10    |
| Methyl Salicylate, Cans. | .47    | .47       | .47        | .52       | 1.00     | .90     |
| Vanillin                 | .50    | .40       | .40        | .45       | .95      | .20     |
| Average                  | 2.22   | 2.22      | 2.19       | 2.04      | 6.83     | 2.05    |

Active business in essential oils is reported from several quarters in spite of the general high prices which rule at present. Buyers, who have been holding off in order to take on stocks of cheaper materials, are compelled to come into the market and make fair-sized purchases. Cost of replacement or production is coming more and more to determine values rather than the sharp price cutting competition which has been noted for many weeks. Higher rates on European currency especially French francs, have tended to stimulate business here. The development of a few spot scarcities pleased the bullish element during the past week. However, a few soft spots are still noted, and are probably due to heavy spot holdings rather than to lack of interest. Aromatic chemicals are in sufficient demand to cause an acute situation in some items, bordering on scarcity.

Light demand for Messina essences has resulted in an easy spot market. Holders of citronella are able to get almost any price they ask. Some quarters predict higher prices for oil clove owing to scarcity of spice. Stocks of oil wormseed are light and country sellers are inclined to withhold offerings. Heliotropin and terpineol have eased off owing to small demand.

#### Essential Oils

**Oil Almond**—Bitter quoted at \$3.25@\$3.75lb. spot, and ffPA at \$3.50@\$3.75lb.

**Oil Angelica Root**—Named steady at \$38.00@\$39.00 lb. spot.

**Oil Anise**—Market continues easy owing to heavy stocks here. Quoted at 42c@45clb. for U.S.P. goods, and shipment was heard at 33clb. c.i.f. New York.

**Oil Bay**—Named at \$2.50@\$2.60lb. spot.

**Oil Bergamot**—Coppers have declined and now quoted at \$2.75@\$2.90lb. spot as to holder and seller with tendency to lower figures owing to easiness in primary

market. London quoting 13s per pound for 38 to 39 l.a. **Oil Bois de Rose**—Good quality oil higher on spot at \$2.75@\$3.00lb., although cheaper priced oils are still available. London quoting 11s 6d per pound.

**Oil Camphor**—White Japanese quoted steady at 13½c@15clb. spot for cases, and 13c@15clb. for drums.

**Oil Caraway**—Firm at \$8.25@\$8.50lb. spot owing to scarcity here and high shipment prices.

**Oil Cardamom**—Firm and active at \$30.00@\$33.00lb. spot.

**Oil Cassia**—Named easy at \$2.85@\$2.95lb. spot for redistilled, and \$2.35@\$2.45lb. for natural. Supplies are none too plentiful, however.

**Oil Cedar Leaf**—Quoted at \$1.05@\$1.10lb. spot with some houses shading these figures on firm business.

**Oil Citronella**—Ceylon quoted higher at \$1.00@\$1.05lb. spot for drums, and \$1.02@\$1.10lb. for tins. Sales were reported to have been made the first of the week in London at 95clb. Good quality oil scarce and closely held. Shipment quoted at \$1.05lb. laid down in New York. Last week 19 drums were entered at New York. Java quoted at \$1.10@\$1.15lb. spot for drums, and \$1.12@\$1.20lb. for tins. Offerings limited at 97½clb. c.i.f. New York. Reports came forward stating that 41 drums recently arrived in London.

**Oil Cloves**—Spot market strong at \$2.40@\$2.50lb. for cans with possibilities of higher prices owing to strength of spice. London quoting 9s per pound.

**Oil Cubebs**—Quoted lower at \$5.25@\$5.50lb. spot.

**Oil Eucalyptus**—Named inside at 70clb. spot for drums, and 72½c@75clb. for cases with tendency to higher figures due to slight scarcity and increased labor costs in primary market.

**Oil Geranium**—Spot Bourbon unchanged at \$7.50@\$8.00lb. January shipment from Island Reunion named at 255 to 260 francs per kilo. African firm at \$8.00@\$8.50lb. spot.

**Oil Lavender**—Active buying flurry appears to have subsided somewhat with result that wider range now prevails at \$4.50@\$6.25lb. for U.S.P. as to quality. Spike firm at 65c@70clb. spot.

**Oil Lemon**—Easy at 75c@87½clb spot for Italian as to seller. Last week saw 100 cases entered at New York. American named at 75c@80clb. spot.

**Oil Nutmeg**—Higher at \$1.00@\$1.10lb. spot.

**Oil Orange**—Italian easy at \$3.15@\$3.35lb. spot as to seller and quantity. Sweet West Indian named at \$2.20@\$2.30lb. spot. During past week 100 cases were imported at New York. American lower at \$3.00@\$3.25lb. spot.

**Oil Peppermint**—Buying reported active both on spot and for shipment. Quoted at \$3.15@\$3.25lb. for natural, and \$3.35@\$3.45lb. for redistilled.

**Oil Sandalwood**—Easy at 7.15@\$7.25lb. spot.

**Oil Sassafras**—Quoted higher at \$1.90@\$2.05lb. spot, if procurable.

**Oil Vetivert**—Good quality oil quoted at \$7.25@\$7.50 lb. spot.

**Oil Wormseed**—Has advanced again and now quoted inside at \$5.50@\$6.00lb. spot owing to scarcity here and

tendency for country to keep new crop goods from coming on market.

#### Aromatic Chemicals

**Amyl Salicylate**—In fair demand at \$1.45@\$1.50lb. spot for domestic, and \$2.25@\$2.50lb. for imported.

**Coumarin**—Makers report an active market at \$4.50@\$4.65lb. spot. Resales available in limited quantities at \$4.35lb.

**Heliotropin**—Domestic lower at \$1.85@\$2.00lb. spot, and imported at \$2.25@\$2.50lb. Practically no material is being imported at the moment owing to high "landed cost."

**Musk Ketone**—Quoted at \$14.00@\$15.00lb. spot, if obtainable. Ambrette firm at \$14.00@\$15.00lb. spot.

**Terpineol**—Has declined and now quoted at 50c@51c lb. for drums, and 52c@54c lb. for cans due to easier position of raw material and small demand. Imported at 95c@\$1.20lb. spot. Last week 5 drums were imported at New York.

**Tolu Balsam**—Quoted firm and active at \$2.25@\$2.50. spot as to seller and quantity. Offerings from primary market reported about one-third normal.

Italian orange oil is expected to decline, according to "The American Perfumer." The crop will be almost up to normal and the holdover is estimated at about 15,000 pounds. Bergamot oil is expected to show a 40 per cent decrease on last year's production, but the holdover is a record one. A slight drop should appear in January and February, when the new oil comes on the market, says the paper.

Messrs. Fortune, Drury, and Crooks have been appointed a Nominating Committee by President Briggs of the Chicago Perfumery, Soap and Extract Association. The annual meeting will be held Dec. 12, and the annual banquet, in the charge of a committee headed by Clarence Morgan, will be given Dec. 13, at the Hotel Drake.

Essential oils were produced in the Island of Reunion: Geranium, 68,500 kilos (151,015 pounds); Lemongrass, 300 kilos (661 pounds); Vetivert, 5,500 kilos (12,125 pounds); Ylang-ylang, 4,300 kilos (9,480 pounds) in 1922 according to Consul Jas. Q. Carter, Tananarive, Madagascar.

Predicting that Bourbon vanilla beans would sell for \$6.00 per pound before the end of the year owing to scarcity of old crop goods here, a leading importer has withdrawn all quotations. Quotations for future delivery have also been temporarily withdrawn.

Plantations for production of oil limes, distilled, have been damaged severely by blight and prices will be considerably higher, according to "The Chemist and Druggist". No offers have appeared below 4s per pound c.i.f.

Theodore K. Shipkoff, Bulgarian otto of rose producer, will soon leave this country after a two months' visit here. He is making his headquarters with Shipkoff & Co., New York, United States representatives.

A small plant has been established in the Government Cold Stores of Port Adelaide, South Australia, for the purpose of making lemon and orange squash, lemon and orange oil, and citric acid.

Vanilla crop in Guadeloupe is estimated at 400,000 pounds, cured, according to Consul Shelby F. Strother, Basse-Terre.

Wangler-Budd Co., New York, will take over the business of Julian W. Lyon & Co., essential oil importers.

#### PATCHOULI OIL SHIPMENTS INCREASE

**United States Buys About \$19,000 Worth in Seven Months, at Singapore**

Exports of patchouli leaves and oil are on the increase, according to Vice Consul Wade Blackard, Singapore, Straits Settlements. Of the leaves exported, 90 per cent are grown in the interior of the northern portion of the island of Sumatra and are shipped to Singapore for export. The remaining 10 per cent are grown on the island of Singapore and in the Nonfederated Malay State of Johore. The leaves, which are collected by the natives, are sent down the rivers to small ports on the northwestern coast of Sumatra. At these points they are pressed into bales of 280 pounds each and are shipped to Singapore in gunny sacks.

During the first seven months of the year 1923 the exports of patchouli oil amounted to 206,116 Straits dollars (1 Straits dollar=\$0.53). The principal countries to which the oil was exported, and the respective values of shipments, were: England, 55,000 dollars; Japan, 49,540 dollars, and the United States, 37,840 dollars. The market at present is dull and the price now, compared with prices received a year or more ago, is very low. The average production of the oil is from 2,000 to 3,000 pounds a month. Most of the leaves exported were destined for the United States, with India and Europe the next best customers. Patchouli oil is shipped in 20-pound iron drums, packed in sawdust, two to a case. The present market price for the oil is approximately 9 Straits dollars a pound. There are three oil distillers in Singapore, all Chinese firms, and the distilleries are equipped with fairly up-to-date machinery.

The active demand for essential oils in London, appears to be due partly to the steady increase in prices, a reversal of the usual process, according to "Chemist and Druggist." Considerable variation is shown in sellers' quotations, and there are cases where spot prices are below those for shipment. Sassafras oil is scarce and dearer. Bois de rose is tending firmer. Brown camphor oil is dearer to arrive, but white is a shade easier on spot. Java citronella is increasing in value. Japanese mint and American peppermint have been in better demand, and are dearer. Clove oil is firmer, and Bourbon geranium is cheaper for forward delivery, the c.i.f. price having recently been dearer than spot.

Uigerer & Co. recently issued the following statement regarding costs of production of oil neroli in France: "The cost of the flowers this season for preparing one kilo of pure oil neroli (Neroli d'Or) was 2,500 francs, or approximately \$150.00 per kilo. This means that to prepare one pound of pure oil neroli required flowers costing more than \$68.00. From this a deduction of \$13.00 may be made for the value of the by-product, orange flower water, making the net cost \$55.00. These figures are official and accurate. To this must be added manufacturing costs, selling expense and profit."

A new tamper-proof can is now being used by the Monsanto Chemical Works, St. Louis, as a container for vanillin. The can has the usual friction top, but this is protected by a metal seal which guarantees that the manufacturer's product reaches the consumer in the pure state.

V. Vivaudou, Inc., New York, has lost the Mineralava agency, according to reports. The gross business for the first ten months of the current year amounted to \$5,750,000, of which Mineralava accounted for \$540,000.

## The Foreign Markets

Imports of Drugs and Chemicals, page 1511

### OILS ORANGE AND LEMON HIGHER

Castor Oil, Zanzibar Cloves, Jalap and Sandarac Also Advance—Acetic Acid, Phenacetin and Potassium Carbonate Firmer—Japanese Camphor Oil Lower  
(Special Cable to DRUG & CHEMICAL MARKETS)

London, Nov. 28—Prices are higher for phenazone, oils orange and lemon, condurango bark, jalap root, sandarac gum, oil cloves, Zanzibar cloves, and castor oil.

Quotations are firmer for acetic acid, phenacetin, and potassium carbonate.

The market is easier for carbolic acid, Jamaica sarsaparilla, and agar agar.

Lower prices are announced for Japanese camphor oil and oil anis.

London, Nov. 17 (By Mail)—The improvement in fine chemicals continues, with more enquiry for export to the Far East and for home trade, and prices generally are higher. Opium is scarce and the morphine makers have again advanced their quotations, as from the 9th inst., for all the salts and also for codeia. Iodides have also been advanced with the exception of iodofrom. Reports from the Continent announce a partial failure of the potato crop causing an advance in dextrine and farina. American peppermint oil is dearer with several other American specialties in sympathy with the heavy fall in the sterling-dollar rate of exchange. The heavy chemical market remains quiet and practically unaltered with the exception of carbolic acid which is cheaper.

The Hudson's Bay Co. holds its annual public sale of castoreum on Dec. 5. The quantity available is approximately 2,000 lbs.

Bichromate of potash and soda—The principal makers have revised their U.K. prices as follows by minimum 4 ton contracts: Bichromate of potash 5½d less 5 per cent; bichromate of soda 4½d less 5 per cent; bichromate of anhydrous 5½d less 5 per cent; chromate of soda 4½d less 5 per cent, with reduction clause over 12 months.

Other changes are as follows:—

Morphia Hydrochlor Cryst., 16 ozs. 16s 9d, 100 ozs. and over 16s 3d per oz.

Morphia Pure Cryst., 16 ozs. 20s 11d, 100 ozs. and over 20s 3d per oz.

Codeia Pure Cryst., 16 ozs. 23s 3d, 100 ozs. and over 22s 6d per oz.

Codeia Sulfate and Hydrochlor, 16 ozs. 20s 6d, 100 ozs. and over 19s 9d per oz.

Pot. Iodide 1 cwt. and over, 16c 8d per lb.

Sodium Iodide 28 lbs. and over 18s 10d.

Iodine Sublimed 28 lbs. and over 19s 3d.

Iodoform, unchanged, 21s 6d.

Cantharides, Hungarian, 9s per kilo f.o.b. Hamburg.

Carbolic Acid Crystals 1s 1d per lb. f.o.b.

Phenacetin 7s 6d per lb.

The last London public Drug Auctions for this year were held on Nov. 22.

Tin exports from Bolivia in September totaled 3,543 metric tons. The tin mining industry in Bolivia is at present very prosperous.

|  | FOREIGN EXCHANGE | Par    | Current |
|--|------------------|--------|---------|
| Great Britain (pound sterling)           | \$4.886          | \$4.38 |         |
| France (franc) .....                     | .193             | .054   |         |
| Italy (lira) .....                       | .193             | .043   |         |
| Germany (mark) per hundred .....         | 23.80            | .029   |         |
| Czechoslovakia (crown) per hundred ..... | 20.30            |        |         |
| Poland (marks) per hundred .....         | 23.80            | .00004 |         |
| Japan (yen) .....                        | .499             | .483   |         |
| Holland (guilder) .....                  | .402             | .381   |         |
| Spain (peseta) .....                     | .193             | .130   |         |
| Belgium (franc) .....                    | .193             | .046   |         |
| Switzerland (franc) .....                | .199             | .175   |         |
| Sweden (crown) .....                     | .268             | .263   |         |
| Denmark (crown) .....                    | .268             | .173   |         |
| Argentina (peso) .....                   | .424             | .315   |         |
| Brazil (milreis) .....                   | .524             | .089   |         |
| China (Silver dollar—Hongkong) .....     | .789             | .510   |         |
| (Tael—Shanghai, silver) .....            | 1.082            | .725   |         |
| (Tael—Peking, silver) .....              | 1.156            | .770   |         |

The Japanese soda ash market is now completely under the control of British producers, according to "Canadian Chemistry and Metallurgy," which says: "Japanese producers who have thus far held a corner in the market are reduced to a helpless condition. Importers of Magadi soda are virtually driven off the market. The supply of American soda ash was stopped some time ago and since then the import market has been shared by British soda ash producers and Magadi soda importers. During the war years, there were three Japanese alkali works that produced soda ash. One was compelled to close down with the restoration of peace. Another was also compelled to stop production recently. These three have thus far supplied roughly 100,000 tons annually. The Asahi Glass Co., which is the only Japanese plant producing soda ash now, is, however, compelled to change its policy. It will no longer fight British producers, but will buy their soda ash.

The French government is purchasing beet sugar alcohol of the 1923-24 crop at the rate of 250 francs per hectoliter if over 90 proof and 217.17 francs for alcohol of less strength. The prices were fixed by proclamation of Oct. 20 and cover only the pure, rectified product, reports Vice Consul Davis B. Levis, at Havre, to the Department of Commerce. The whole French production will be purchased at these prices irrespective of taste and payment is being made in three installments.

Hoshi Pharmaceutical Co., of Tokyo, Japan, says: "As the result of the earthquake, our main office at Kyobashi, was burnt and immediately Osaka was made the main office. One of the most fortunate things for us was that not one of our employees was killed in the calamity. We are especially thankful for the favor Providence bestowed upon us, and in return are ever more united to work in the cause of national catastrophe and humanity."

Finland has a growing industry in casein, the manufacture of which is a recent introduction in that country though dairying is a highly developed industry in Finland. Part of the casein produced is used at Tammerfors in the manufacture of combs and articles in imitation bone, and the rest is exported.

An import tax on perfume and toilet goods is proposed by a bill introduced into the Uruguayan Congress of two pesos on articles selling at 25 pesos and a tax of 3 to 4.5 for those selling above this level.

### Foreign Trade Notes

Italy's per capita consumption of paraffin is the highest in the world. Normal import requirements are above 20,000 tons annually, about 75 per cent of which comes from the United States.

The German Potash Syndicate has agreed to accept American wheat in exchange for German fertilizers, as suggested by a commission representing associations of American farmers.

Alsation potash production for the first eight months of 1923 amounted to 613,976 metric tons, compared with 501,948 metric tons for the same period last year. These figures represent, respectively, 154,399 and 123,301 metric tons of pure potash.

Since April last, 1,223 alcohol distilleries have been working in Poland, employing 9,500 hands. The probable production of pure alcohol in the present season is estimated at 65,000,000 litres in rural and 20,000,000 litres in industrial distilleries.

French production of artificial silk is estimated at 1,500 tons yearly and is far below consumption as excess of imports over exports has been steadily increasing. One new mill is nearly finished and the erection of several mills is contemplated.

Of the 1,565 pharmacists doing business in Tokyo at the time of the recent earthquake in Japan 951 suffered heavy damages to stocks and many are financially ruined. The number who lost their lives has not been ascertained, according to the "Weekly Druggist" of Tokyo.

A recent law in Chile provides that no sack of produce to be carried on a man's shoulders may have a weight greater than 80 kilograms (176 lbs.). This applies to imported goods, but material may be sent in greater weight provided the goods are re-sacked after arrival, if it is to be man-handled.

Bauxite mining is at a standstill in Germany, according to Consul F. W. Dumont. In 1913 Germany imported approximately 38,000 tons from France but during the war deposits in Upper Hessen were developed, the monthly output being about 1,200 tons. The aluminum content was slightly under the French bauxite.

Carbon dioxide is being used profitably in Holland in making a more durable butter by churning in an atmosphere of gas. The air is withdrawn from the churn and replaced with carbon dioxide and the portion worked into the butter remains a long time with ordinary handling, thus keeping out oxygen to which deterioration is chiefly due.

Camphor may be cultivated in all parts of India that have a rainfall of forty inches or over, according to Forest Research Institute, Dehra Dun. However, as a commercial enterprise its cultivation should not be attempted outside of the tropical areas, and that even in these districts the financial returns are likely to be small while camphor remains around its present price.

The capital of the combined French dye firms, Compagnie Nationale des Matieres Colorantes and Etablissements Kuhlmann recently amalgamated, will be 150,000,000 francs, according to latest reports. Six former directors of the Nationale company are on the board of the new company. Intermediate products will be manufactured in the future mainly at Oissel and the works at Villers-Saint-Paul will be devoted to color manufacture.

### CANADIAN DYE IMPORTS LESS

(Special to DRUG & CHEMICAL MARKETS)

Toronto, Canada, Nov. 28.—Canadian imports of dyeing and tanning materials during September, were valued as follows: From Britain, \$12,675; United States, \$18,978; other countries, \$66,515; total \$258,168; compared with imports for September, 1922: Britain, \$23,615; United States, \$246,497; other countries, \$49,656; total \$319,768.

Imports of aniline and coal tar dyes included in the above were as follows: From Britain 13,167 lbs., value \$7,075; United States, 131,268 lbs., value \$80,632; Germany, 16,849 lbs., value, \$12,292; Netherlands, 20,315 lbs., value, \$16,555; Sweden, 51,201 lbs. value \$23,489; Switzerland, 7,729 lbs., value \$10,234; other countries, 2,430 lbs. value, \$1,177; total, 242,953 lbs., value, \$151,654; compared with imports for September, 1922: From Britain, 25,903 lbs., value, \$18,505; United States, 139,653 lbs., value, \$104,511; Germany, 8,050 lbs., value, \$10,390; Netherlands, 29,361 lbs., value, \$12,851; Sweden, 6,530 lbs., value, \$6,135; Switzerland, 17,714 lbs., value, \$18,369; other countries, 745 lbs., value, \$1,097; total, 227,956 lbs., value, \$171,858.

### UNABLE TO GET CINCHONA BARK

Chemical manufacturers in Amsterdam, Holland, who are not members of the Quinine Convention are unable to obtain cinchona bark from Java, according to a report from Samuel H. Cross, acting commercial attache at The Hague. All the cultivators in Java are in a combine called the N. V. Bandoengsche Kininefabriek, Bandoeng, which ships the total output to Amsterdam where auctions are held periodically. Purchasing at these auctions is restricted to quinine manufacturers who are members of the Quinine Convention, and producers are allowed to sell quinine only at the prices fixed by the Convention. The principal European producers of quinine are N. V. Amsterdamsche Kininefabriek, Amsterdam; N. V. Nederlandsche Kininefabriek, Maarsse, Netherlands; Boots Pure Drug Co., Nottingham, England; Howard & Sons, Ltd., Ilford, England; Whiffen & Sons, London, S. W. 11; Boehringer & Sons, Mannheim, Germany; Zimmer & Co., and Merck & Co., Darmstadt, Germany.

British and American syndicates are arranging to treat the concentrates of arsenic to be obtained from the various gold mines in the vicinity of Dartmouth and Halifax, N. S., Canada, and have taken an option on the property in Dartmouth with the view of establishing a large smelting plant in the near future, according to R. Smith, manager of the Clarke Gold Mines Corp.. At present the concentrate is sent to Europe converted and then shipped back as arsenic, fertilizers and insecticides. The company has a new process by which arsenic can be obtained from the ore at a very low cost.

Sweden will produce potash on a large scale and her domestic supply will gradually displace the 20,000 to 30,000 tons of potash per year which have been imported during the past decade. Rich deposits have been found stretching southwestward from Stockholm. The raw materials in a single small property which is to be exploited amount, it is said, to about 40,000,000 tons.

Canadian imports of drugs, medicinal and pharmaceutical preparations during September were valued as follows: From Britain \$91,768, United States \$84,412, other countries \$27,291, total \$23,471; compared with imports in September 1922; From Britain \$83,123, United States \$78,024, other countries \$23,756, total \$184,903.

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 Sodium Bicarbonate  
 Glauber's Salt  
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 Sodium Silicate  
 Tri Sodium Phosphate

*WAREHOUSES:*  
 New York, N. Y.      Syracuse, N. Y.      Albany, N. Y.  
 Brooklyn, N. Y.      Utica, N. Y.      Newark, N. J.

## Leather Chemicals

### GOOD QUALITY SUMAC HARD TO FIND

Dry Season Abroad Being Felt Here—Cod and Menhaden Oils Scarce—Castor Oil Higher—Sodium Sulfide Demand Better Although Prices Are Low—Slow Buying Keeps Prices Down Generally

|                          | Trend of the Market |            |           |                |         |      |
|--------------------------|---------------------|------------|-----------|----------------|---------|------|
|                          | Last Week           | Last Month | Last Year | War Peak       | Pre-War |      |
| Acid, Acetic, 28%        | \$3.38              | \$3.35     | \$3.38    | \$3.17@\$17.00 | \$1.50  |      |
| Acid, Formic             | .12½                | .12½       | .12       | .18            | .50½    | .07  |
| Acid, Lactic, 22% dark   | .04½                | .04½       | .04½      | .04½           | .07     | .02  |
| Potassium Bichromate     | .09½                | .09½       | .09½      | .10            | .65     | .06½ |
| Epsom Salt, tech.        | 1.80                | 1.80       | 1.80      | 1.70           | 3.75    | 1.00 |
| Sodium Prussiate, Imp.   | .11½                | .11½       | .13½      | .20½           | 1.25    | .18  |
| Soda Ash, 58% wks.       | 1.38                | 1.38       | 1.45      | 1.45           | 4.10    | .69  |
| Sodium Bichromate        | .07½                | .07½       | .07½      | .07½           | .45     | .04½ |
| Sodium Hyposulfite       | 2.75                | 2.75       | 2.75      | 3.00           | 3.75    | 1.30 |
| Sodium Sulfide, 60% wks. | .03½                | .03½       | .03½      | .04½           | .10½    | .02½ |
| Average                  | .980                | .982       | .989      | .998           | 3.267   | .528 |

Demand for the tanning chemicals shows little expansion and as a consequence, most prices remain at low levels with competition for the limited orders available, reported keen. While for the past few months, movements of chemicals have been in favor of the buyer, this week shows almost a stationary position in values. Stocks of most products are plentiful except a few products such as sumac, cod oil, menhaden oil, and one or two others. The general tendency of the heavy stocks is to depress prices although most big suppliers of tanning materials show a tendency to resist further pressure. The outlook is not for higher chemical prices unless a pronounced wave of buying comes with the close of the year. Little good quality sumac is available here. Castor oil is higher. Demand for sodium sulfide is better, apparently induced by low prices. Formaldehyde is weak. Supplies of formic acid are better.

**Acid, Formic**—The situation is a little easier with supplies having improved. Demand continues good and prices are holding at 12½clb. for imported 90 per cent material. Domestic is scarce and high in price at 16clb.

**Acid, Lactic**—Supplies are moving steadily though not in large volume. Prices are holding steady with 22 per cent dark, 4½c@5clb.; light, 5½c@6clb.; 44 per cent, dark, 9½c@10clb.; light, 11½c@12clb.; 66 per cent, dark, 14½c@15clb.; light, 25c@30clb.

**Acid, Sulfuric**—All factors report a steady and increasing demand for this acid. Prices show no change over previous levels which held 66° in tanks at works at \$15.00@\$16.00 ton; drums at \$1.10@\$1.25 and carboys at \$1.25@\$1.50; 60° in tanks at \$9.00@\$11.00 ton. Oleum named at \$17.00@\$19.00 for 20 per cent in tanks. Drums, \$1.25@\$1.50.

**Arsenic**—Red sulfide holding at 15c@15½clb. on routine demand.

**Extracts**—Imports of tanning materials continue to arrive steadily, nearly 14,000 bags of quebracho being entered at New York last week and 1,253 casks of valonia. Sumac is reported poor in quality this season and good quality material is difficult to locate. Prices show little change with chestnut at 2c@2½clb.; cutch, 4½c@5clb.; fustic, 10c@14clb.; gambier, 8½c@9½clb.; hematine, 11½c@13½clb.; logwood, 7½c@12clb.; myrobalans, 4c@5clb.; quebracho, 3c@3½clb.; spruce, 1c@2clb.; sumac, 7c@9clb.

**Formaldehyde**—Stocks have been accumulating owing

to the small demand and prices are easy with general quotations at 11clb. for small lots.

**Epsom Salt**—Domestic technical is moving at \$1.80@\$2.00 per hundred while imported material is named at \$1.00@\$1.10. Imports at New York last week included 5,000 bags of Epsom salt.

**Oils**—The market in oils is strong with supplies none too plentiful. Cod oil continues difficult to obtain while prices are held at 70c@72c according to quantity and seller. Menhaden fishing is over and stocks are small. Sellers are asking 50c per gallon for crude. Refined oils are named at 65c@68c for light strained and 68c@71c for yellow bleached. High grade neatsfoot oil is higher at 17½clb. and extra at 11clb. Castor oil has been advanced to 14c@14½clb. Olive oil is stronger.

**Potassium Bichromate**—Demand has shown no decided improvement and business is along routine lines. Some contract business is reported but buying has been mainly for immediate requirements. Prices are holding at 9½c@9¾clb.

**Potassium Titanium Oxalate**—Holding at 28c@30clb.

**Soda Ash**—Contract deliveries are proceeding regularly while consumers have been contracting for next year's requirements. Contract prices are named at \$1.38 for 58 per cent in carlots of bags at works. Less than carlot business on spot at \$2.04 in bags, delivered, and \$2.29 in barrels.

**Sodium Prussiate**—With prices at low levels business has been improving. Several contracts were reported at 11clb. for imported material while spot prices are holding at 11½c@12clb. Shipments are named at 11½c lb. Domestic makers are quoting 13½clb.

**Sodium Sulfide**—Improved buying is reported with prices at a variance according to seller. Solid is named at 3c@3¾clb. and broken at 4½c@5¼clb. Crystals are quoted from 2c@2¾clb. at works.

Labor conditions in Europe enable tanners to deliver leather into the United States below the cost of production here, says the "Shoe and Leather Reporter." The curtailment of tanning is making an export surplus of hides which taken by foreign tanners can be returned to our markets in the form of leather. It is one of the anomalies of our industry that lessened demand does not decrease the take-off of hides and skins. Under free trade conditions, the leather made from the available supply of hides will be produced wherever tanning costs are lowest. There appears to be no escape from this competition except through tariff protection.

### OTHER TANNING AND LEATHER MATERIALS

For reports on chemicals, oils, tanning extracts, and other raw materials for the leather industries not reported on this page, see Pages 1462, 1463, and 1466. For the current market quotations on chemicals and allied products, with specifications and packing, see price list beginning on Pages 1484, 1501, 1502, and 1504. Prices are for goods f.o.b. New York or works for prompt shipment unless otherwise specified. Read full explanation on Page 1484.

# Quality Always Uniform

ACETIC ACID  
 PURE ACETONE  
 METHYL ACETONE  
 METHANOL  
 SOLVENTS

**The Cleveland-Cliffs Iron Company**  
 Cleveland, O.



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**PAPER—TEXTILES—LEATHER**

Write us regarding your color problems.  
 Our laboratory service is unexcelled, and our  
 formulae are accurate and easily followed.

## Paper Chemicals

### CASEIN STIFFENS FOLLOWING WEAKNESS

Importers Quote 8c c.i.f. Firm for Shipment—English Filler Clays to Hold at Current Levels for Next Six Months—Bleaching Powder Still Weak in Keen Competition—Buying Limited

|                            | Trend of the Market |           |            |           |          |           |
|----------------------------|---------------------|-----------|------------|-----------|----------|-----------|
|                            | Today               | Last Week | Last Month | Last Year | War Peak | Prev. War |
| Aluminum Sulfate .....     | \$2.40              | \$2.40    | \$2.40     | \$2.40    | \$5.50   | \$1.50    |
| Blanc Fixe .....           | 75.00               | 75.00     | 75.00      | 80.00     | 95.00    | 43.00     |
| Bleaching Powder .....     | 1.25                | 1.25      | 1.25       | 2.00      | 9.50     | 1.50      |
| Casein .....               | .11½                | .11½      | .15½       | .15       | .28      | .20       |
| China Clay, Dom. ....      | 10.00               | 10.00     | 10.00      | 15.00     | 25.00    | 8.00      |
| Chlorine Cyl. ....         | .05½                | .05½      | .05½       | .05½      | .30      | .08       |
| Salt Cake .....            | 21.00               | 21.00     | 21.00      | 25.00     | 80.00    | 11.00     |
| Satin White .....          | .01½                | .01½      | .01½       | .02       | .05      | .03       |
| Sodium Silicate, 40° ..... | .80                 | .80       | .80        | .95       | 1.75     | 2.00      |
| Rosin, F grade .....       | 5.80                | 5.80      | 5.80       | 6.50      | 4.05     | 20.25     |
| Average .....              | 11.44               | 11.44     | 11.44      | 14.20     | 20.14    | 6.95      |

Quoted at 8c c.i.f. for shipment in a very weak market in the last report, the situation in casein has changed somewhat with the removal of some selling pressure, and importers are quoting the same figure, but in a firmer market. Competition for most orders for chemicals, however, makes for generally uncertain prices with some firms ready to cut under almost regularly to get business. This situation in the paper chemicals is aggravated by strictly hand to mouth buying by the mills. The mills are not benefitting greatly by the low chemical prices as reduced operations are caused chiefly by cheap imports of foreign pulp and paper. English china clay prices for filler grades will remain the same for the next six months according to the statement of a prominent importer. Bleaching powder and chlorine continue to be weak spots in the chemical market as the fight between producers shows no let-up.

**Acid, Sulfuric**—All factors report a steady and increasing demand for this acid. Prices show no change over previous levels which held 66° in tanks at works at \$15.00@\$16.00 ton; drums at \$1.10@\$1.25 and carboys at \$1.25@\$1.50; 60° in tanks at \$9.00@\$11.00 ton. Oleum named at \$17.00@\$19.00 for 20 per cent in tanks. Drums, \$1.25@\$1.50.

**Aluminum Sulfate**—Contract deliveries are proceeding regularly and new business appears to be improv-

ing slowly. Prices are holding close to \$2.40 for the iron-free and \$1.40 for the commercial.

**Blanc Fixe**—Little change in the situation with supplies moving regularly at \$75.00@\$80.00 for domestic dry and \$50.00@\$55.00 for the pulp. Imported material at \$70.00@\$72.00 ton.

**Bleaching Powder**—Contracts were being placed at \$1.25 per 100lbs. in standard drums at works. Prompt business also being sold at \$1.25. Most sellers were quoting these prices. Demand appears to be improving after several months of dullness in business and keen competition among sellers.

**Casein**—The market has become firmer after the softness of a week ago, and is quoted firm at 8c/lb., c.i.f. New York for Argentine material. Spot goods continue at 12c@12½clb.

**China Clay**—Prices will show no change over the next six months and are named at \$6.00@\$8.00 for the crude; washed and ground named at \$7.50@\$12.00 ton. Filler clay at \$13.00@\$16.00 ton and coating clay, \$25.00 ton.

**Chlorine**—The situation remains about the same with competition still keen and prices holding at low levels. Contract prices for tanks over 1924 are named at 3½clb. while ton cylinders are quoted 5½c@6clb. Small lots named at 6c@8clb. in 100 and 150lb. cylinders.

**Salt Cake**—Supplies are moving regularly but the demand is somewhat below normal. Stocks are in better volume and quoted at \$21.00@\$24.00 ton according to seller and quantity.

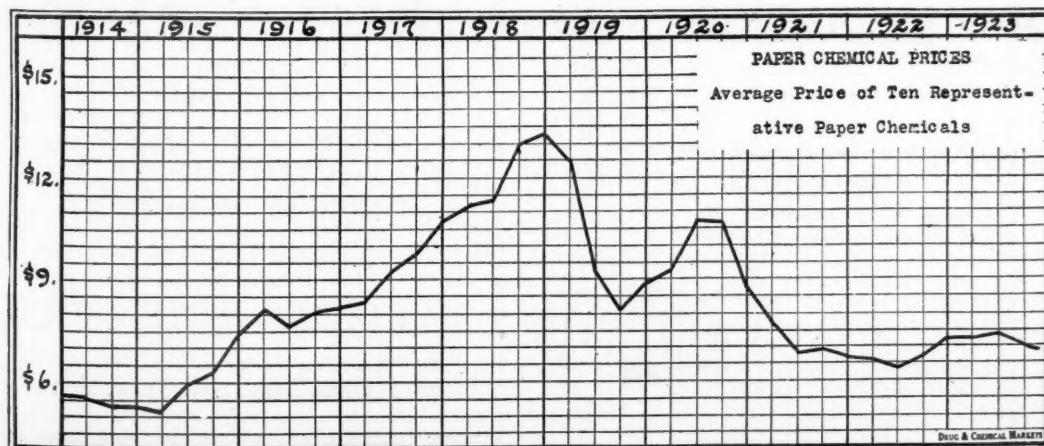
**Satin White**—Named at \$1.45@\$1.50 per 100 lbs.

**Sodium Bisulfite**—Dry holding steady at 4½clb. and the liquid at \$1.25@\$1.75 according to strength.

**Sodium Silicate**—Unchanged with makers quoting 40 degree in tanks at 75c and 80c in drums. Sixty degree at \$1.75@\$1.90 at works.

**Soda Ash**—Contract deliveries are proceeding regularly while consumers have been contracting for next year's requirements. Contract prices are named at \$1.38 for 58 per cent in carlots of bags at works. Less than carlot business on spot at \$2.04 in bags, delivered, and \$2.29 in barrels.

**Rosin**—Improved demand reported at unchanged prices. B to K, \$5.80; M, \$5.85; WG, \$6.75; WW, \$7.00.



[NOVEMBER 28, 1923]

# HF & G

**Antimony Sulphurette  
Hexamethylenetetramine  
Carbon Black**

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Pure Benzol  
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*For shipment in tank cars or  
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—non-poisonous, odorless, free from all objectionable fumes. Try it in tube stocks —produces pure gum compounds with a very high resistance to tear.

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ROLL BRIMSTONE  
FLOWERS  
PRECIPITATED 100%

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**BATTELLE & RENWICK**

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Incp. 1902

80 Maiden Lane, New York, N. Y.

## Rubber Chemicals

### IRON OXIDE AND WHITE BARYTES ACTIVE

Acetone Firm and Acetic Acid Steady—Carbon Black Firm—Mineral Rubber Steady—Dimethylaniline Lower—Hexamethylene Active—Asbestine Steady—Benzene Lower

|                              | Trend of the Market |           |            |           |          |         |
|------------------------------|---------------------|-----------|------------|-----------|----------|---------|
|                              | Today               | Last Week | Last Month | Last Year | War Peak | Pre-War |
| Carbon Black .....           | \$12                | \$12      | \$14       | \$15      | \$30     | \$14    |
| Carbon Bisulfide .....       | .06                 | .06       | .06        | .06       | .50      | .10     |
| Carbon Tetrachl. ....        | .09                 | .09       | .09        | .09       | .70      | .07     |
| Benzene, Pure .....          | .21                 | .22       | .25        | .30       | 1.10     | .25     |
| Antimony Sulfide, Crim. .... | .39                 | .39       | .36        | .35       | .45      | .35     |
| Talc, Dour., Ref. ....       | 18.00               | 18.00     | 18.00      | 20.00     | 40.00    | 15.00   |
| Whiting, Dom. ....           | 14.00               | 14.00     | 14.00      | 18.00     | 30.00    | 11.00   |
| Zinc Oxide, Amer. ....       | .0834               | .0834     | .0834      | .07       | .0954    | .09     |
| Lithopone .....              | .07                 | .07       | .07        | .06       | .08      | .04     |
| Sulfur .....                 | 3.05                | 3.05      | 3.00       | 2.50      | 6.50     | 2.75    |
| Average .....                | 3.606               | 3.607     | 3.605      | 4.158     | 7.972    | 2.979   |

Only a minimum amount of price shading is in evidence in passing business. Reports by returning representatives of rubber chemical houses indicate that mills are taking on supplies to last them for a few weeks only. However, if the small orders are repeated often, the volume transacted over a month's time amounts to a reasonable figure. Nothing definite has been heard in regard to action on curtailment of the use of carbon black by the Louisiana Legislature. Stocks on spot are none too heavy except in a few cases.

Benzene has declined owing to accumulation of stocks and willingness of dealers to shade prices in order to turn over investment. Iron oxide and white barytes have been in active demand. Holders of carbon black are not inclined to sell unless they get their price. Dimethylaniline has declined and is now quoted at 39c to 40c pound. Hexamethylene is active and the price holds up in spite of easiness of raw material.

Acetone—Holding at \$1.15@\$1.20 for the methyl and 25c@25½clb. for the C.P. Acetone oil is scarce and strong at \$1.25@\$1.30.

Acid, Acetic—Prices holding at recent levels with demand somewhat routine. Makers quote 28 per cent at \$3.38@\$3.63 in barrels; 56 per cent, \$6.75@\$7.00; seventy per cent, \$8.38@\$8.63; glacial, \$12.78@\$13.53.

Aniline Oil—Quoted at 16c@17clb. works as to quantity, and 17c@18clb. spot. Supplies in resale quarters are reported on decrease.

Aluminum Sulfate—Quiet at 5c@6clb. spot with tendency to shade these figures on firm business.

Antimony Sulfide—Golden named at 19c@24clb. as to quality, and crimson at 39c@50clb.

Asbestine—More activity has been shown this week at \$18@\$20 ton works.

Benzene—Has declined and now quoted at 20c@21c gal. works in tanks, and 25c@27c gal. in drums for 90 per cent material. Pure also lower at 21c@24c gal. in tanks, and 26c@29c gal. in drums. Export demand according to reports is small and unless conditions improve on the Continent, other outlets will probably have to be found in order to take up surplus stocks.

Blanc Fixe—Quoted at 4c@4½clb. f.o.b. New York.

Carbon Bisulfide—Steady at 6c@7½clb. spot as to quantity.

Carbon Black—Quoted firm at 12c@14clb. 1c/l spot for cases, and contracts inside at 9½c@11½clb. Export demand to the Orient reported active, while little supplies are going to the Continent.

China Clay—Quoted at \$13@\$20 ton for domestic at points of production, and \$18@\$20 ton for imported.

Dimethylaniline—Has declined and now quoted at 39c@40clb. spot as to quantity owing to small demand.

Diphenylguanidine—Quoted at \$1.10@\$1.15lb. spot as to quantity. The patent suit has been refused a hearing in the United States Supreme Court with the result that its production is not restricted to any one company.

Hexamethylene—Makers report an active market at 82½c@85clb. spot. Price appears well maintained in view of the weak position of the raw material.

Iron Oxide—English active at 12c@16clb. spot, and Spanish at 3½c@7½clb. as to quality.

Lithopone—Quoted at 7c@7½clb. spot. Last week 400 casks were imported at New York.

Mineral Rubber—Steady at \$35@\$50 ton for 300/315 quality material.

Sulfur—Named at \$3.05@\$3.30 cwt.; superfine at \$2.50 @ \$2.90; and chloride at 6c@7clb. spot.

Talc—Domestic quoted at \$15@\$18 ton works; French at \$40@\$45 ton; and Italian at \$47@\$58 ton.

White Barytes—Active at \$27@\$33 ton works.

Seasonal slackness in export tire trade and increasing foreign competition resulted in a decline in export shipments of rubber goods during September, the total value, \$2,623,209, being the lowest recorded since February, 1922. In both 1921 and 1922, the value of rubber goods exported in September was lower than for any other month in the last half of the year, although not so low as in some months of the first half. The value of exports in September, 1923, was lower than for the corresponding month of the previous year, and this has not previously occurred since February, 1922, according to figures of the Rubber Division of the Department of Commerce.

For the first time in many months, one of the leading tire manufacturers of Ohio, who has been a big factor in price-cutting has begun to buy chemicals in larger volume. His plants are reported selling plenty of tires and resuming operations, but at present prices for rubber goods, it is not believed that any profit is being made as a result of the activity.

The value of imports of acetic acid for coagulation of rubber latex in British Malaya increased from £23,472 in 1921, to £118,824 in 1922 and £62,472 for the first six months of 1923. The bulk of the acid came from Netherlands and Germany. In 1921 Canada furnished nearly fifty per cent of the imports.

### OTHER COMPOUNDING INGREDIENTS

For reports on chemicals, solvents, fillers, vulcanizing compounds, pigments, and other raw materials for the rubber industries not reported on this page, see Pages 1462, 1463, and 1464. For current market quotations on chemicals and allied products with specifications and packing, see price list beginning on Page 1484. Prices are for goods f.o.b. New York or works prompt shipment unless otherwise specified. Read full explanation on Page 1484.



*From the Standpoint of Satisfaction*

## Katigen Deep Black GGN Conc.

*would be the biggest thing in your plant!*

This concentrated Sulphur Black simplifies dyeing operations through its dependable strength, shade, solubility and uniformity.

*Give it a trial!*

### THE GRASSELLI CHEMICAL COMPANY

*Dyestuff Department*

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**COLUMBIA BRAND**

*Columbia Chemical Division,  
Pittsburg Plate Glass Co., Barberton, Ohio*

## Caustic Soda

All Tests

## Soda Ash

Dense-Light  
Granular if Desired

*Sole Selling Agents*

**The Isaac Winkler & Bro. Co.**

80 BROAD STREET  
NEW YORK

FIRST NATL BANK BLDG.  
CINCINNATI

## MONOPOLE OIL

Reg. Trade Mark No. 70991

A specialized textile oil, highly concentrated and double sulphonated which is used to better advantage wherever a Turkey Red or Soluble Oil has been employed because—

MONOPOLE OIL holds in solution all foreign matters and prevents the formation of lime soaps, iron spots, Calcium or Magnesium Salt, and thus—

Promotes level dyeing,  
Assists in better penetration of dye-stuff,  
Increases the lustre,  
Gives more body and a desirable  
handle.

For the best results in dyeing, bleaching, mercerizing and finishing of wool, cotton and silk, try this specialty.

*Allow us to send samples.  
The product will prove itself.*

**JACQUES WOLF & CO.**  
PASSEIC, N. J.

## Textile Chemicals

### FORMIC ACID SITUATION EASIER

Supplies Show Improvement Over Temporary Shortage—Sodium Prussiate Firmer—Oxalic Acid Firm—Competition in Bichromates—Sodium Sulfide Demand Better—Starches and Dextrines Slow Up

|                        | Trend of the Market |              |               |             |             |             |
|------------------------|---------------------|--------------|---------------|-------------|-------------|-------------|
|                        | Last<br>Today       | Last<br>Week | Last<br>Month | War<br>Year | War<br>Peak | Pre-<br>War |
| Acid, Acetic, 28%      | \$3.38              | \$3.38       | \$3.38        | \$3.17      | \$17.00     | \$1.50      |
| Acid, Oxalic           | .12                 | .12          | .11 1/4       | .14         | .70         | .07 1/4     |
| Bleaching Powder       | 1.25                | 1.25         | 1.25          | 2.00        | 9.50        | 1.50        |
| Copper Sulfate         | 4.80                | 4.80         | 4.90          | 5.75        | 20.00       | 4.50        |
| Epsom Salt, U.S.P.     | 2.15                | 2.15         | 2.15          | 2.25        | 4.25        | 1.80        |
| Glauber's Salt         | 1.80                | 1.80         | 1.80          | 1.25        | 2.50        | .80         |
| Potash, Caustic, Imp.  | .07                 | .07          | .07           | .06 1/2     | .87         | .12         |
| Soda Ash, 55% wks.     | 1.38                | 1.38         | 1.38          | 1.45        | 4.10        | .69         |
| Soda Caustic, 76% wks. | 3.10                | 3.10         | 3.10          | 3.16 1/2    | 9.50        | 1.80        |
| Sodium Bichromate      | .07 1/2             | .07 1/2      | .07 1/2       | .45         | .45         | .04 1/2     |
| Average                | 1.762               | 1.762        | 1.772         | 1.840       | 4.800       | 1.42        |

Changes in prices of textile chemicals have been few during the week. Concessions in sales are made occasionally but no general decline in any material has been noted. Demand is showing a gradual improvement with the resumption of mills which have been shut down temporarily but it is still confined to immediate wants. Under these conditions the market tends to remain spotty. Alkalies, soda ash and caustic soda, are in steady demand. The formic acid situation has eased up with the improvement in supplies. Oxalic acid continues firm at the recent advance. Bichromates are subject to keen competition in a quiet market. Sodium prussiate is firmer after the decline. Sodium sulfide demand has improved but prices are still low owing to large supplies.

**Acid, Acetic**—Prices holding at recent levels with demand somewhat routine. Makers quote 28 per cent at \$3.38@\$3.63 in barrels; 56 per cent, \$6.75@\$7.00; seventy per cent, \$8.38@\$8.63; glacial, \$12.78@\$13.53.

**Acid, Formic**—The situation is a little easier with supplies having improved. Demand continues good and prices are holding at 12½clb. for imported 90 per cent material. Domestic is scarce and high in price at 16clb.

**Acid, Oxalic**—Buying has been increasing and prices are firmer than recently. Domestic material named at 12clb. works and 12½c@13clb. on spot. Imported quoted at 12c@12½clb.

**Acid, Sulfuric**—All factors report a steady and increasing demand for this acid. Prices show no change over previous levels which held 66° in tanks at works at \$15.00@\$16.00 ton; drums at \$1.10@\$1.25 and carboys at \$1.25@\$1.50; 60° in tanks at \$9.00@\$11.00 ton. Oleum named at \$17.00@\$19.00 for 20 per cent in tanks. Drums, \$1.25@\$1.50.

**Bleaching Powder**—Contracts were being placed at \$1.25 per 100lbs. in standard drums at works. Prompt business also being sold at \$1.25. Most sellers were quoting these prices. Demand appears to be improving after a several months of dullness in business and keen competition among sellers.

**Chlorine**—The situation remains about the same with competition still keen and prices holding at low levels. Contract prices for tanks over 1924 are named at 3½clb. while ton cylinders are quoted 5½c@6clb. Small lots named at 6c@8clb. in 100 and 150lb. cylinders.

**Epsom Salt**—Domestic technical is moving at \$1.80@\$2.00 per hundred while imported material is named

at \$1.00@\$1.10. Imports at New York last week included 5,000 bags of Epsom salt.

**Glauber's Salt**—Steady improvement in demand with prices unchanged at \$1.30@\$1.75 according to quantity in barrels. Imported material at 85c@90c.

**Soda Ash**—Contract deliveries are proceeding regularly while consumers have been contracting for next year's requirements. Contract prices are named at \$1.38 for 58 per cent in carlots of bags at works. Less than carlot business on spot at \$2.04 in bags, delivered, and \$2.29 in barrels.

**Soda Caustic**—Business is along broad lines with contract deliveries progressing steadily and many contracts closed for next year. Contract prices are named at \$3.10 for 76 per cent in carlots at works. Dealers quote standard brands at \$3.76@\$3.91 for small lots delivered.

**Sodium Bichromate**—Makers are quoting prices at 7½c@7½clb. according to seller and quantity. Demand is not large at present and competition for business continues keen.

**Sodium Prussiate**—With prices at low levels business has been improving. Several contracts were reported at 11clb. for imported material while spot prices are holding at 11½c@12clb. Shipments are named at 11½c lb. Domestic makers are quoting 13½clb.

**Sodium Sulfide**—Improved buying is reported with prices at a variance according to seller. Solid is named at 3c@3½clb. and broken at 4½c@5½clb. Crystals are quoted from 2c@2½clb. at works.

### Starches and Dextrines

Buying has slowed up this month after an active one in October. Prices are also showing signs of weakening owing to the lower values of cash corn. Sales are being made on the basis of \$4.19@\$4.34 for British gum; white corn dextrine named at \$3.84@\$3.94; yellow, \$3.89@\$3.99; potato, 7½c@8clb. Powdered starch, \$3.42 @\$3.52; pearl, \$3.32@\$3.42. Potato starch, 6c@6½clb. Tapioca flour, 5½c@7clb.

### Coal-Tar Dyes

While there has been little change in the market for dyestuffs the outlook for the future appears more promising since prices appear to have reached their lowest levels and demand from cotton and textile mills is beginning to show improvement. With the exception of benzene and toluene, crudes are fairly steady in price. Benzene and toluene are weak. Aniline is steady at 16c @17clb. Beta-naphthol is holding the recent advance. Aniline salt at 23c@24clb.

### OTHER TEXTILE MATERIALS

For reports on chemicals, oils, fillers, finishing compounds, bleaches, and other raw materials for the textile industries not reported on this page, see Pages 1462, 1463, and 1464. For current market quotations on chemicals and allied products with specifications and packing, see price list beginning on Pages 1484, 1502, and 1504. Prices are for goods f.o.b. New York or works for prompt shipment unless otherwise specified. Read full explanation on Page 1484.

# Prices Current of Fine and Heavy Chemicals, Drugs, Essential Oils, Dyestuffs and Oils

**CLASSIFICATION**—Prices quoted herein are listed in the following groups: Chemicals, including heavy and technical chemicals, fine and medicinal chemicals, aromatic chemicals and isolates, crudes and intermediates from coal-tar, various fine alkaloids, and miscellaneous products. Crude Drugs, Essential Oils, including oleoresins; Fatty Oils, including Animal Vegetable and Fish Oils, Greases, Fats, and Tallow; Tanning and Dye Extracts, including miscellaneous natural tanning woods, extracts, etc. All groups are arranged in straight alphabetical order.

**Packages**—Prices are for large quantities in original packages of the customary trading units of weight or measure. A container given in connection with a price does not necessarily mean that this is the quantity on which the price is based. Containers named are the original packages most commonly sold in this market.

**QUOTATIONS**—Chemical prices quoted herein are those of American manufacturers unless otherwise specified. Quotations on imported chemicals are so designated. Where resale or "second hand" stocks of any chemical product are sufficient to be considered a factor in determining the market, prices for goods in this class will be quoted in addition to makers' prices available, and indicated as such. Chemical prices quoted herein are for goods spot New York or Metropolitan

District, f. o. b. or ex-store, for immediate shipment, unless otherwise specified. Numerous domestic-made heavy or industrial chemical products are sold principally on a basis of f. o. b. works, and are thus quoted in the list herein, each instance of a "works" price, however, being specified as such.

Fatty Oils prices quoted herein are for goods spot New York unless otherwise noted; f. o. b. mills and Coast prices being designated as such. Crude Drugs and Essential Oils are quoted f. o. b. New York (Manhattan with limitations) for immediate shipment. Tanning and Dye Extracts are quoted spot New York unless otherwise noted.

**WEIGHTS AND MEASURES**—All quotations are made on a basis of avoirdupois pounds and ounces, and American gallons. The following equivalents are given for the reference of exporters, importers, and foreign buyers:

|                             |       |                  |
|-----------------------------|-------|------------------|
| 1 Imperial Gallon (British) | —1.20 | American Gallons |
| 1 American Gallon           | —.833 | Imperial Gallon  |
| 1 American Gallon           | —3.79 | Liters           |
| 1 Liter                     | —.264 | American Gallon  |
| 1 American Gallon (Water)   | —8.35 | Pounds           |
| 1 Pound (Avoirdupois)       | —.454 | Kilograms        |
| 1 Kilogram                  | —2.20 | Pounds           |

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## Chemicals

|   |        |        |                                      |     |        |   |             |
|---|--------|--------|--------------------------------------|-----|--------|---|-------------|
| <b>ACETANILID</b> , tech. 150 lb bbls. lb | .27    | : .28  | <b>ACID, Carbolic</b> —(Continued)   |     |        | <b>Acid, hydrofluoric</b> —(continued)    |             |
| 100 lb kgs. ....                          | .28    | : .30  | Crude, 25% 50 gal. bbls. gal         | .35 | : .36  | 60% 100 lb chy. wks. ....                 | 14          |
| USP 200 lb bbls. ....                     | .32    | : .33  | 10%, 50 gal. bbls. .... gal          | .30 | : .32  | 60% 300 lb dr. wks. ....                  | 13          |
| Second Hand. ....                         | .30    | : .31  | Chloroacetic,                        |     |        | White Acid, 100 lb chy. wks. ....         | 26          |
| Acetone Anhydride, 85% 450 lb drs. lb     | .38    |        | mono 100 lb bbls. wks. ....          | lb  | : .30  | White Acid, 10 chy. wks. ....             | 25          |
| 85%, 107 lb chys. ....                    | .38    |        | DI, 150 lb chys. wks. ....           | lb  | : .100 | Hydrofluosilicic, 35% 450 lb bbls.        |             |
| 92-95% 100 lb chys. ....                  | .43    | : .45  | TM, 425 lb bbls. wks. ....           | lb  | : .245 | wks. ....                                 | 15 : .16    |
| Acetone, Cr. 700 lb drs. c/l wks. ....    | .25    |        | Chlorosulfonic, 1500 lb drs.         |     |        | Hydrophosphorous, USP 30% 5               |             |
| 700 lb drs. lc/l wks. ....                | .25    |        | wks. ....                            | lb  | : .15  | ani. dems. ....                           | .95         |
| .350 lb drs. lc/l wks. ....               | .30    | : .33  | Chromic, USP 200 lb drums. ....      | lb  | : .40  | USP, 10% 5 gal. dems. ....                | .33         |
| Second Hand, spot. ....                   | .30    | : .33  | 85% Pure, 200 lb drums. ....         | lb  | : .35  | LACTIC, 22% 500 lb bbls. lb               | .04% : .05  |
| Acetone Oil, light, drs. wks. .... gal    | 1.25   | : 1.30 | Chromotropic, 300 lb bbls. ....      | lb  | : 1.25 | 22% light, bbls. ....                     | .05% : .06  |
| Heavy, drs. wks. .... gal                 | 1.25   | : 1.30 | Chrysophanic, see Chrysanthin        |     |        | 44% dark, bbls. ....                      | .09% : .10  |
| Acetophenetidin, 150 lb bbls. ....        | 1.85   | : 1.90 | Cinnamic, 5 lb cans. ....            | lb  | : .93  | 44% light, bbls. ....                     | .11% : .12  |
| Acetyl Chloride, 100 lb drs. ....         | .40    | : .41  | CITRIC, USP cryst 230 lb bbls. lb    |     |        | 66% bbls. dark, bbls. ....                | .14% : .15  |
| Acetic, 28%, 400 lb bbls. ....            | 1.30   |        | Powd., 200 lb bbls. ....             |     |        | 66% light, bbls. ....                     | .25 : .30   |
| Acetic, 28%, 400 lb bbls. c/l             |        |        | Imported, cryst. 112 lb kegs. ....   |     |        | USP IX 100 lb chys. ....                  | .70 : .75   |
| wks. ....                                 | 100 lb |        | Single kegs. ....                    |     |        | USP VIII 100 lb chys. ....                |             |
| 28%, lc/l wks. ....                       | 100 lb |        | Cleves, 225 lb bbls. ....            | lb  | : 1.00 | Laurent's, 250 lb bbls. ....              |             |
| 36%, c/l wks. ....                        | 100 lb |        | Cresylic, 95% dark dr. NY. .... gal  |     | : 1.10 | Metanilic, 250 lb bbls. ....              |             |
| 56%, lc/l wks. ....                       | 100 lb |        | 97-99% straw, drs. wks. .... gal     |     | : .75  | Mixed, sulfuric-nitric                    |             |
| 70%, bbls. c/l wks. ....                  | 100 lb |        | 97-99% pale, drs. NY. .... gal       |     | : .85  | Drums, wks. .... N Unit                   | .07% : .08  |
| 70%, lc/l wks. ....                       | 100 lb |        | Crude, spot, drums. .... gal         |     |        | Drums, wks. .... S Unit                   | .01 : .01%  |
| 80% coml. bbls. c/l wks. ....             | 100 lb |        | Diethylbarbituric, 10 lb lots.       |     |        | Tank cars, wks. .... N Unit               | .07% : .08  |
| 80% coml. lc/l wks. ....                  | 100 lb |        | 1 lb hot. ....                       | lb  | : 8.50 | Tank cars, wks. .... S Unit               | .01 : .01%  |
| 80% pure bbls. c/l wks. ....              | 100 lb |        | Formic, 75% tech. 100 lb chys. ....  | lb  | : 11   | Molybdic, 85% pure 1 lb hot. lb           | .60 : 1.70  |
| 80% pure lc/l wks. ....                   | 100 lb |        | 90%, 75 lb chys. incl. ....          | lb  | : 12.5 | 85% pure, 100 lb kegs. ....               |             |
| Glacial, bbls. c/l wks. ....              | 100 lb |        | Gallie, USP 150 lb bbls. ....        |     | : .65  | Monosulfonic F, Delta. 50 lb              |             |
| Glacial, lc/l wks. ....                   | 100 lb |        | Gamma, 225 lb bbls. wks. ....        | lb  | : 1.86 | tins. ....                                |             |
| Glacial, USP c/l wks. ....                | 100 lb |        | Bols. ton lots wks. ....             | lb  | : 1.70 | MURIATIC, 20° chys. lc/l                  |             |
| Acetylalicylic, 220 lb bbls. ....         | .75    |        | Glyceroephosphoric, 25% 1 lb b. .... | lb  | : 1.50 | wks. ....                                 |             |
| Second Hand. ....                         |        |        | H 225 lb bbls. ....                  |     | : .86  | Chys. c/l wks. ....                       | 1.40 : 1.50 |
| Anthranilic, ton lots drs. ....           | .90    |        | Bols. ton lots wks. ....             |     | : .75  | 18°, 120 lb chys. ....                    | 1.25 : 1.30 |
| 95-98%, 100 lb drs. ....                  | 1.00   |        | Hydrobromic, 10% USP 5 lb bot. lb    |     | : .73  | c/l wks. ....                             | 1.00 : 1.10 |
| 99-100%, 100 lb drs. ....                 | 1.00   |        | Hydrobromic, 48% coml. 155 lb        |     |        | Tank cars, wks. ....                      | 1.00 : 1.00 |
| Benzole, tech. 100 lb bbls. ....          | .75    |        | chys. wks. ....                      | lb  | : .35  | 22°, 120 lb chys. ....                    |             |
| USP, 100 lb bbls. ....                    | .75    |        | 48% coml. 10 chys. wks. ....         | lb  | : .40  | c/l wks. ....                             | 1.75 : 2.00 |
| Second Hand. ....                         | .72    | : .77  | 40% USP 155 lb chys. wks. ....       | lb  | : .45  | Iron, free 20° chys. ....                 |             |
| Boric, crys. powd. 250 lb bbls. ....      | .10%   | : .11% | 10% USP 100 lb chys. wks. ....       | lb  | : .46  | c/l wks. ....                             |             |
| Kegs. ....                                | 100 lb |        | 10% USP 100 lb chys. wks. ....       | lb  | : .11  | Tank cars, wks. .... net ton              |             |
| Bromine's 250 lb bbls. ....               | .15%   |        | Hydrochloric, see also Acid Muriatic |     |        | Muriatic, CP & USP, see Acid Hydrochloric |             |
| Butoric, 60% pure 5 lb bot. ....          | .50    | : .60  | CF, USP, 110 lb chys. ....           | lb  | : .09  | Naphthionic, tech. 250 lb bbls. ....      |             |
| C.P. 10 lb bot. ....                      | 1.25   | : 1.50 | wks. ....                            |     | : .11  | Refined, single bbls. ....                |             |
| Camphoric, USP, VIII 1 lb bot. ....       | 5.90   | : 6.00 | 20% bbls. c/l wks. ....              |     | : .07  | Neville & Winters, 250 lb                 |             |
| Carbolic, USP crys. see also Phenol       |        |        | 30% 100 lb chys. wks. ....           | lb  | : .06  | bbls. ....                                |             |
| 112 lb tins. ....                         | .28    | : .30  | 48% single 100 lb chys. wks. ....    | lb  | : .07  | 1.10 : 1.15                               |             |
| 25 lb tins. ....                          | .30    | : .32  | 48% 10 chys. wks. ....               | lb  | : .11  |   |             |
| 5 lb tins or bot. ....                    | .33    | : .35  | 52% 100 lb chys. wks. ....           | lb  | : .10  |   |             |
| 1 lb bot. ....                            | .37    | : .39  | 52% 10 chys. wks. ....               | lb  | : .12  |   |             |
| Liquid UMF, 1 lb bot. ....                | .36    | : .38  | 52% 10 chys. wks. ....               | lb  | : .11  |   |             |

# Collodion

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## Chemicals

| ACID, NITRIC, 38° 135lb          |             | Acid Sulfuric |          | ALCOHOL—(continued)              |         |       |         |  |      |        |
|----------------------------------|-------------|---------------|----------|----------------------------------|---------|-------|---------|--|------|--------|
| chys, whs.                       | 100lb       | 4.75          | : 5.00   | Oleum, 20 p.e. 1500lb drums,     |         |       |         |  |      |        |
| Chys, c/l whs.                   | 100lb       | 4.50          | : 4.75   | le/l whs.                        | 100lb   | 1.50  | : 1.75  | Isopropyl, crude 50 gal. drs..gal  | ...  | : 2.25 |
| 38° single chys, whs.            | 100lb       | 5.50          | : 5.75   | Drums, c/l whs.                  | 100lb   | 1.25  | : 1.50  | Refined, 50 gal. drs..gal  | 4.00 | : 4.50 |
| Chys, c/l whs.                   | 100lb       | 5.25          | : 5.50   | Tank cars, whs.                  | net ton | 17.00 | : 19.00 | Ref'd, 91%, drs..gal   | ...  | : 3.50 |
| 40° Single chys, whs.            | 100lb       | 6.00          | : 6.50   | Contract cars, whs.              | ton     | ...   | ...     | Methyl, see Alcohol, Wood  |      |        |
| Chys, c/l whs.                   | 100lb       | 5.75          | : 6.00   | Oleum, 40% drs le/l whs. net     | ton     | ...   | 40.00   | Propyl, nml. crd 50 gal. drms.gal  | ...  | : 4.40 |
| 42° Single chys, whs.            | 100lb       | 6.75          | : 7.50   | Oleum, 60% drs, le/l whs. net    | ton     | ...   | 70.00   | Refined, 10lb can.   | ...  | : .75  |
| Chys, c/l whs.                   | 100lb       | 6.50          | : 7.00   | Sulfurous, USP 6% 100lb chys.    | lb      | .05   | : .06   | Denatured  |      |        |
| C. P. chys, single whs.          | 100lb       | .14           | : .18    | 4% 100lb chys.                   | lb      | .04   | : .05   | No. 1 Complete Denat. 188 Proof  |      |        |
| Oxalic, 325lb bbls, whs.         | ...         | ...           | 12 1/2%  | USP, 5 gal. demis.               | lb      | .06   | : .08   | 50 gal. bbls. incl.  | .56  | : .58  |
| Bbls., NY.                       | lb          | 12 1/2        | : .13    | Tannic, tech. 300lb bbls.        | lb      | ...   | .45     | 50 gal. drums, extra...  | .51  | : .53  |
| Kegs, 100lb NY.                  | lb          | 13            | : 13 1/2 | USP, powd. 200lb bbls.           | lb      | .80   | : .83   | No. 1 Special Denat. 190 Proof   |      |        |
| Imp., 560lb casks.               | lb          | 12            | : 12 1/2 | USP, fluffy, 50lb bbls.          | lb      | .80   | : .83   | 50 gal. bbl. incl.   | .54  | : .56  |
| Phosphoric, 50% tech. 100lb      | ...         |               |          | Tartaric USP cryst 300lb bbls.   | lb      | ...   | .32 1/2 | 50 gal. drums, extra...  | .48  | : .50  |
| chys.                            | lb          | .08           | : .09    | USP, powd. 300lb bbls.           | lb      | ...   | .32 1/2 | No. 5 Complete Denat. 188 Proof  |      |        |
| USP, 85% syrupy, 70lb            | ...         |               |          | Imp. USP, 240lb bbls.            | lb      | .27   | : .28   | 50 gal. bbls. incl.  | .53  | : .55  |
| demis                            | lb          | .12           | : .14    | Powd. 240lb bbls.                | lb      | .28   | : .29   | 50 gal. drums, extra...  | .47  | : .49  |
| Phthalic, see Phthalic Anhydride | ...         |               |          | Tobias, 250lb bbls.              | lb      | 1.00  | : 1.10  | No. 6 Complete Denat. 188 Proof  |      |        |
| Picramic, 300lb bbls.            | lb          | ...           | : .65    | Tungstic, 100lb kegs.            | lb      | ...   | 1.00    | 50 gal. bbls. incl.  | .53  | : .55  |
| Picric, 450lb bbls.              | lb          | ...           | : .80    | Valerie, C.P., 10lb bot.         | lb      | 4.00  | : 4.25  | 50 gal. drums, extra...  | .46  | : .48  |
| Bbls., car lots, whs.            | lb          | .20           | : .25    | Aconitine Alk. cryst. 1 oz. vis. | os      | ...   | 30.00   | In addition to the regular authorized formulas for completely denatured alcohol, some 75 formulas for specially denatured alcohol are authorized for special uses. Owing to the limitations of their uses however, prices are quoted by the alcohol producers only to holders of permits allowing the use of specially denatured formulas in products authorized by the Dept. of Internal Revenue. |      |        |
| Pyrogallic, crys. 5lb cans.      | lb          | 1.10          | : 1.20   | Amorphous, 1 oz. vis.            | os      | ...   | 30.00   |  |      |        |
| Resublimed, 5lb cans.            | lb          | 1.50          | : 1.60   | Adeps Lanee, hydrat. 350lb bbls. | lb      | .21   | : .23   | Aloin, USP 100lb cases.  | .90  | : .95  |
| Tech. powd.                      | 200lb bbls. | lb            | ...      | Anhydrous, 350lb bbls.           | lb      | .23   | : .24   | Alpha-Naphthol, crude 300lb bbls.  | lb   | ...    |
| Salicylic, tech. 125lb bbls.     | lb          | .32           | : .33    | Albumen, Egg, edible.            | lb      | 1.15  | : 1.20  | Refined, 300lb bbls.   | ...  | : .75  |
| USP, 100lb bbls.                 | lb          | ...           | : .35    | Technical, see Dyers Sundries    |         |       |         | Alpha-Naphthylamine, 350lb bbls.   | lb   | .35    |
| Second Hand.                     | lb          | .34           | : .35    | ALCOHOL, USP 190 pf. 50 gal.     |         |       |         | Ton lots, bbls. whs.   | ...  | : .35  |
| Sulfanilic, 250lb bbls.          | lb          | .17           | : .20    | bbls.                            | ...     | 4.83  | : 4.91  |  |      |        |
| SULFURIC, 68° 180lb chys.        | ...         |               |          | Second Hand, bbls, USP 190 pf.   | ...     | ...   |         |  |      |        |
| le/l whs.                        | 100lb       | 1.50          | : 1.75   | Export, USP, 190 pf. gal.        | 4.45    | : .83 |         |  |      |        |
| Chys, c/l whs.                   | 100lb       | 1.25          | : 1.50   | Cologne Spirit, 50 gal. bbls.    | gal     | 4.77  | : 4.87  |  |      |        |
| 1500lb Drums, le/l               | ...         |               |          | WOOD, see Methanol               |         |       |         |  |      |        |
| wks.                             | ...         | 100lb         | ...      | Alcohols, also in 50 gal         |         |       |         |  |      |        |
| Drums, c/l whs.                  | 100lb       | ...           | 1.10     | drums, extra and returnable.     |         |       |         |  |      |        |
| Tank cars, whs.                  | net ton     | 15.00         | : 17.00  | Amyl, see Oil Fuel               |         |       |         |  |      |        |
| 60° 1500lb Drums,                | ...         |               |          | Butyl, 50 gal. drums.            | lb      | .45   | : .50   |  |      |        |
| le/l whs.                        | 100lb       | .70           | : .90    | Isobutyl, crude 50 gal. drums.   | gal     | ...   | ...     |  |      |        |
| Drums, c/l whs.                  | 100lb       | .60           | : .80    | Refined, 10lb can.               | lb      | 2.00  | : 2.50  |  |      |        |
| Tank cars, whs.                  | net ton     | 9.00          | : 11.00  |                                  |         |       |         |  |      |        |
| C. P. 175lb chys.                | 100lb       | ...           | ...      |                                  |         |       |         |  |      |        |

# General Chemicals

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 Epsom Salt      Aqua Ammonia      Sodium Sulphide  
 Hydrochloric Acid      Copperas Nitrate Iron      Sodium Silicate  
 Mixed Acids      Anhydrous Bisulphite Soda      Sodium Phosphate

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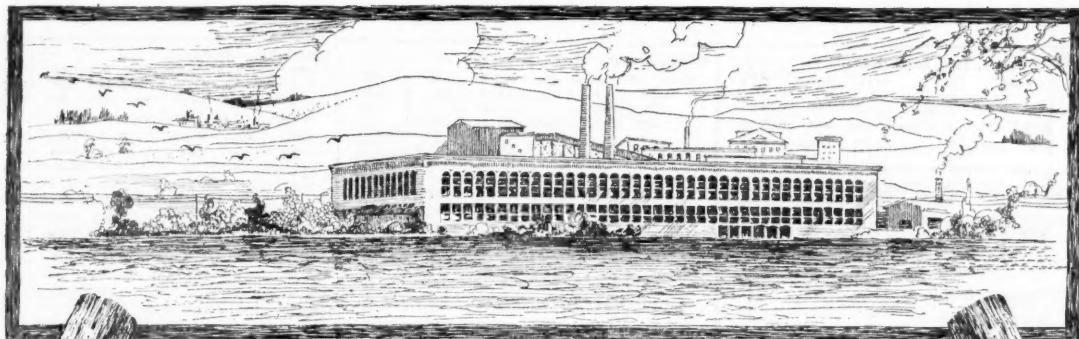
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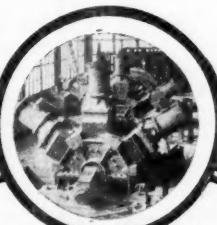
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## Chemicals

| ALUM, Ammonia, lump 400 lb bbls.  |                     | AMMONIA anhyd. 100 lb cyl...lb       |                                | AMMONIUM—(Continued)              |                   |
|-----------------------------------|---------------------|--------------------------------------|--------------------------------|-----------------------------------|-------------------|
| wks.                              | 100 lb              | 3.50                                 | : 3.65                         | Water, 26° 800 lb drs. wks...lb   | ... : .30         |
| Imp.                              | 500 lb casks        | 100 lb                               | 3.50 : 4.00                    | Dra. c/l wks.....lb               | ... : .07 1/2     |
| Ground,                           | 400 lb bbls. wks.   | 100 lb                               | 3.65 : 3.75                    | C.P. cyls. ....lb                 | ... : .14         |
| Powd.                             | 380 lb bbls. wks.   | 100 lb                               | 3.90 : 4.00                    | Imp. 800 lb drs. incl. spot. lb   | .06% : .07        |
| Chrome                            | 500 lb cks. wks.    | 100 lb                               | 5.50 : 6.00                    | 26° 100 lb cyls. le/l wks. lb     | .08 1/2 : .09 1/2 |
| Potash, lump                      | 400 lb bbls.        | wks.                                 | 100 lb ... : 4.50              | Cyls. c/l wks.....lb              | .08 1/2 : .09     |
| Bbls. c/l wks.                    | 100 lb              | ... : 4.25                           | 20°, 800 lb drs. le/l wks. lb  | ... : .06                         |                   |
| Cont. bbls. c/l wks.              | 100 lb              | ... : 4.25                           | Cyls. le/l wks.....lb          | ... : .07 1/2                     |                   |
| Imp. 650 lb cases s.p.            | 100 lb              | 3.00 : 3.25                          | 18°, 800 lb drs. le/l wks. lb  | ... : .05 1/2                     |                   |
| Ground, 400 lb bbls. wks.         | 100 lb              | 4.35 : 4.60                          | Cyls. le/l wks.....lb          | ... : .07 1/2                     |                   |
| Imp. 650 lb casks                 | 100 lb              | 3.00 : 3.25                          | 16°, 800 lb drs. le/l wks. lb  | ... : .04                         |                   |
| Powd.                             | 380 lb bbls. wks.   | 100 lb                               | 4.50 : 4.75                    | Cyls. le/l wks.....lb             | ... : .07         |
| Chrome                            | 700 lb cks. wks.    | 100 lb                               | 5.50 : 6.00                    | Ammonium Acetate, 100 lb kegs. lb | ... : .40         |
| Soda, grd.                        | 400 lb bbls. wks.   | 100 lb                               | ... : 4.00                     | Benzoate, USP, 1 lb bot. ....lb   | .98 : 1.05        |
| Bbls. c/l wks.                    | 100 lb              | ... : 3.50                           | Bifluoride, 300 lb bbls.....lb | .22 : .23                         |                   |
| Aluminum, metal, c/l NY...        | 100 lb              | 25.50 : 26.00                        | 100 lb kegs .....lb            | .23 : .24                         |                   |
| Chloride, anhyd.                  | 275 lb drs. lb      | .20 : .22                            | Bromide, 50 lb boxes.....lb    | ... : .33                         |                   |
| 30% sol. 120 lb chys....lb        | ... : .03 1/2 : .04 | Imported, 112 lb boxes....lb         | .17 1/2 : .18 1/2              |                                   |                   |
| Hydrate 96% light 90 lb bbls. lb  | ... : .18 1/2 : .20 | Carb. tech. 560 lb casks....lb       | ... : .09                      |                                   |                   |
| SULFATE, Iron-free bags c/l       | wks.                | 100 lb ... : 2.50                    | Powd. tech. 385 lb bbls. lb    | ... : .09 1/2                     |                   |
| Imported, spot                    | 100 lb              | ... : 2.25                           | USP, lump, 100 lb kegs....lb   | ... : .09 1/2                     |                   |
| Comm'l. 3% iron bags. c/l         | wks.                | 100 lb ... : 1.40                    | Powd. tech. 100 lb kegs....lb  | ... : .10 1/2                     |                   |
| Cost. bags. c/l wks. E. 100 lb    | ... : 1.40          | Chloride, Domestic                   |                                |                                   |                   |
| Bags. c/l wks. W...100 lb         | ... : 1.35          | White gran. 250 lb bbls. NY. lb      | ... : .08                      |                                   |                   |
| Bbls. c/l wks. East. 100 lb       | ... : 1.55          | Bbls. c/l wks.....lb                 | ... : .07 1/2                  |                                   |                   |
| Bulk, c/l cont. wks. E. 100 lb    | ... : 1 ...         | Gray 250 lb bbls. wks....lb          | .08% : .08 1/2                 |                                   |                   |
| Amidol, (see Diaminophenol)       |                     | Bbls. c/l wks.....lb                 | .08 : .08 1/2                  |                                   |                   |
| Amidopyrine, 10 lb boxes...lb     | 4.60 : 5.00         | Imp. w/ 600 lb cases spot. lb        | .06 1/2 : .06 1/2              |                                   |                   |
| 1 lb cartons, 10 lb               | ... : ...           | Gray, 600 lb casks spot. lb          | .07 1/2 : .08                  |                                   |                   |
| Aminoasobenzene, 110 lb kegs...lb | ... : 1.15          | Lump, 500 lb casks spot....lb        | .14 : .15                      |                                   |                   |
|                                   |                     | Ichthyolate, as to brand....lb       | 4.25 : 5.00                    |                                   |                   |
|                                   |                     | Iodide, USP, 25 lb jars....lb        | ... : 5.20                     |                                   |                   |
|                                   |                     | Lactate, 500 lb bbls....lb           | .15 : .16                      |                                   |                   |
|                                   |                     | Nitrate, tech. crys. 225 lb bbls. lb | ... : ...                      |                                   |                   |
|                                   |                     | Refined Crystals, bbls....lb         | .18 : .20                      |                                   |                   |
|                                   |                     | CP gran. 100 lb kegs....lb           | .35 : .37                      |                                   |                   |
|                                   |                     | Oxalate, pure, 100 lb kegs...lb      | .40 : .42                      |                                   |                   |



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## Chemicals

|   |                   |   |                |   |
|---|-------------------|---|----------------|---|
| Arsenic, metal 220 lb kegs.....             | lb .15 : .45      | Benzidine Base, dry 250 lb bbls. lb         | ... : .82      | BISMUTH—(Continued)                       |
| Red, 224 lb kegs cases.....                 | lb .15 : .15½     | 10 bbl. lots .....                          | lb .80 : .82   | Subiodide, 5 lb lots.....                 |
| White, 550 lb bbls, c/l NY. lb              | .13½ : .14        | Benzidine Sulfate, paste 350 lb             |                | ... : 4.70                                |
| Asbestine .....                             | ton 16.00 : 18.00 | bbls. ....                                  | lb .70 : .72   | Subnitrate, USP, 250 lb bbls. ....        |
| Aspirin, see Acid Acetylsalicylic           |                   | Benzol, see Benzene                         |                | ... : 2.90                                |
| Atropine Alk. USP, 1 oz. vial....oz         | 7.50 : 8.00       | Benzonaphthol, 5 lb boxes.....              | lb 3.50 : 3.60 | Second Hands, bbls. or less. lb           |
| Sulfate, 5 oz. cans.....                    | oz ... : 4.00     | Benzoyl Chloride, 500 lb drs. lb            | ... : 1.00     | Cones, 1 lb bot.....                      |
| Single ounce .....                          | oz ... : 4.17     | Benzyl Acetate, 100 lb chys. ....           | lb 1.40 : 1.50 | Subsulicylate, USP, 175 bbls. ....        |
| <b>BARIUM BINOXIDE</b> , see Barium dioxide |                   | Alcohol, 5 lb bot.....                      | lb 1.60 : 1.70 | Tannate, 1 lb bot.....                    |
| Carbonate, precip., 800 lb bbls.            |                   | Benzoate, 5 lb bot.....                     | lb 1.50 : 1.60 | above on basis 25 lb lots.                |
| wks. ....                                   | ton ... : 70.00   | Medicinal FFC .....                         | lb 1.75 : 1.85 | Smaller lots at an advance.               |
| Imports, bbls, spot....ton                  | 75.00 : 77.00     | Chloride, 95% tech. 925 lb drs. lb          | ... : .30      | Blanc Fixe, dry 400 lb bbls, wks. ton     |
| Precip. 200 lb bgs., wks. ....ton           | ... : 70.00       | 100 lb chys. ....                           | lb .30 : .35   | Imported, bbls. ....ton 70.00 : 72.00     |
| Chloride, 800 lb bbls, wks. ....ton         | 80.00 : 82.00     | Redistill. 100 lb chys. ....                | lb .40 : .45   | Paste, 650 lb bbls.....ton 50.00 : 55.00  |
| 200 lb bgs, wks. ....ton                    | ... : 80.00       | Formate, 1 lb bot.....                      | lb 4.00 : 4.25 | BLEACHING POWDER, 700 lb drs.             |
| Import, bbls., spot....ton                  | 82.50 : 85.00     | Berberine Hydchloride, 1 lb bot....         | lb ... : 22.50 | c/l wks. ....                             |
| Dioxide, 88% 690 lb drs. ....lb             | .17 : .18         | Sulfate, acid or neut. 1 lb bot. ....       | lb ... : 22.00 | Contract, c/l wks. ....                   |
| Import, 83-85% 400 lb drs. ....lb           | .14 : .16         | <b>BETA-NAPHTHOL</b> , 350 lb bbls, wks. lb | ... : .26      | F. a. a. c/l.....                         |
| Hydrate, 500 lb bbls.....lb                 | .05½ : .06        | Sublimed, wks. ....                         | lb ... : .25   | Imported, spot .....                      |
| Iodide, 5 lb box.....lb                     | ... : 5.15        | Beta-Naphthylamine, tech. 200 lb            | ... : .60      | Blue Ointment, see Mercury.               |
| Nitrate, 700 lb casks.....lb                | ... : .10         | Sublimed, 200 lb bbls.....lb                | ... : .76      | Mass, see Mercury.                        |
| Import, casks.....lb                        | .08½ : .08½       | Bichloride Mercury, see Mercury Bichloride  | ... : 1.85     | Bone Ash, 100 lb kegs.....lb              |
| Sulfocyanide 400 lb bbls.....lb             | ... : .35         | <b>BISMUTH</b> metal, 150 lb cases....lb    | 2.80 : 2.85    | Black, 200 lb bbls.....lb                 |
| Barytes, floated 350 lb bbls....ton         | 33.50 : 35.00     | Second Hands .....                          | lb 2.50 : 2.85 | Borax, USP, crys. 400 lb bbls. ....lb     |
| Bay Rum, Porto Rican, genuine               |                   | Anhydride, Citrate, USP 5 lb bxs. ....lb    | ... : 5.75     | Powdered, USP, 300 lb bbls. ....lb        |
| Denat. salicy acid or tartar emetic         |                   | Betanaphtholate, 5 lb bxs. ....lb           | ... : 3.35     | Kegs, USP, 100-150 lb ....lb              |
| 45 gal. bbls.....gal                        | 2.50 : 2.75       | Citrate, USP 5 lb bxs. ....lb               | ... : 3.15     | Mordeaux Mixture, powd. bbls. ....lb      |
| Denat. quinine salt, 45 gal.                | bbls. ....gal     | Nitrate, 25 lb jars.....lb                  | ... : 2.00     | Distilled, 1 lb bot. ....                 |
| Domestic synthetic, 50 gal.                 | bbls. ....gal     | Oxychloride, 250 bbls.....lb                | ... : 3.50     | Paste, bbls. ....                         |
| Denat. salicy acid or tartar emetic         | 1.10 : 1.25       | Phenoisulfonate, 5 lb cans....lb            | ... : 3.20     | Bromide, see potass. bromide, etc.        |
| Benzaldehyde, tech. 945 lb drs.             |                   | Salicylate, 250 bbls.....lb                 | ... : 2.00     | Bromine, bot. in 60 lb cs. wks. ....lb    |
| wks. ....                                   | .75 : .80         | Subcarbonate, USP, 250 bbls. ....lb         | ... : 3.40     | Bromobenzene, 600 lb drums....lb          |
| USP, 40 lb chys. ....lb                     | 1.50 : 1.60       | X-Ray diag. 1 lb bot.....lb                 | ... : 3.80     | Bromoform, USP 5 lb bot 50 lb cs. ....lb  |
| FFC, 40 lb chys. ....lb                     | 1.75 : 1.85       | Subgalate, USP 175 lb bbls. ....lb          | ... : 2.80     | Brucine Sulfate, 100 cans.....on          |
| <b>BENZENE</b> , 90% 8000 gal. tanks        |                   |   |                | Butter of Antimony, see Antimony Chloride |
| wks. ....                                   | gal .20 : .21     |   |                | <b>CADMIUM</b> , metal 100 lb bxs....lb   |
| 110 gal. drs. wks. ....gal                  | .25 : .26         |   |                | 1.20 : 1.25                               |
| Pure, Tanks, wks. ....gal                   | .21 : .22         |   |                | Bromide, 50 lb cases jars....lb           |
| 110 gal. drs. wks. ....gal                  | .28 : .28         |   |                | ... : 1.10                                |
|   |                   |   |                | Iodide, 10 lb bot.....                    |
|   |                   |   |                | ... : 4.45                                |
|   |                   |   |                | Sulfide, cs. ....                         |
|   |                   |   |                | 1.50 : 1.60                               |

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## Chemicals

|   |      |         |   |             |  |               |
|---|------|---------|---|-------------|--|---------------|
| CAFFEINE ALK, USP 5 lb cans...lb                        | 4.00 | : 4.25  | CAMPHOR, Amer. ref. 250 lb<br>bbis. ....lb                      | ... : .93   | Chalk, drop 175 lb bbls....lb                      | ... : .08%    |
| Second Hands .....lb                                    | ...  | : 3.90  | 2½ lb slabs, 100 lb cs...lb                                     | ... : .94   | Precip. light 250 lb csks....lb                    | .04% : .04%   |
| Hydrochloride, 1 lb bot....lb                           | 7.12 | : 7.32  | 1 lb cakes, 100 lb cs...lb                                      | ... : .94%  | Precip. heavy 500 lb csks....lb                    | .03% : .04    |
| Sulfate, 1 lb bot.....lb                                | ...  | : 5.50  | 1 oz. tabs, 1 lb cans.  |             | Bulk .....ton                                      | 5.00 : 8.60   |
| Citrate, 25 lb cans.....lb                              | 3.00 | : 3.10  | 100 lb cs. ....lb   | ... : .98%  | Precip. English, 7 lb bags....lb                   | ... : .07%    |
| Hydrobromide, 1 lb bot....lb                            | ...  | : 4.75  | ½ oz. tabs, 1 lb cans.  |             | Charcoal, Bone, see bone black                     |               |
| CALCIUM Acetate, 150 lb bgs, c/l<br>100 lb              | ...  | : 4.00  | 100 lb cs. ....lb   | ... : .99   | Wood, powd. 100 lb bbl....lb                       | .04 : .05     |
| Arsenate, 100 lb bbls c/l wks. ....lb                   | 1.15 | : .15%  | 1 oz. tabs, 100 lb cs. 1 lb<br>tins .....lb                     | ... : 1.01  | Willow, powd. 100 lb bbl....lb                     | .06 : .07     |
| Bbls. 1c/l wks. ....lb                                  | ...  | : .15%  | ½ oz. tabs, 100 lb cs. 1 lb<br>tins .....lb                     | ... : 1.03  | China Clay, Dom. crude.....ton                     | 6.00 : 8.00   |
| Bromide, 100 lb cs.....lb                               | ...  | : .44   | Chinese ref. 2½ lb slabs 100 lb<br>cs. ....lb                   | ... : .90   | Washed & Ground .....ton                           | 7.50 : 12.00  |
| Carbide, 220 lb dr. c/l wks. ....lb                     | ...  | : .04%  | Crude, 100 lb cs. ....lb  | ... : .72   | Imp., Filler Clay .....ton                         | 14.50 : 16.00 |
| Drums 1c/l wks. ....lb                                  | ...  | : .05   | Camphor, Monobrom, 100 lb cs. ....lb                            | 1.75 : 1.85 | Coating .....ton                                   | 25.00         |
| Carbonate, tech. 100 lb bags<br>c/l .....100 lb         | 1.00 | : 1.10  | Caramel, 50 gal. bbls....gal                                    | .60 : .62   | Chloral Hydrate, USP 100 lb drs. ....lb            | .70 : .75     |
| USP, precip. 175 lb bbls....lb                          | ...  | : .04   | Carbazol, 250 lb bbls....lb                                     | .75 : .80   | 25 lb jars .....lb                                 | .73 : .80     |
| Chloride, solid, 650 lb drs. c/l<br>f.o.b. NY .....ton  | ...  | : 24.50 | Carbon Bisulfide, 500 lb dr. c/l NY lb<br>c/l drums, NY. ....lb | ... : .06%  | Chloramine-T, 5 lb bot....lb                       | .85 : .75     |
| Gran., 350 lb drs. c/l f.o.b.<br>NY .....ton            | ...  | : 30.50 | Carbon Black, 12½ lb bags, wks. ....lb                          | .10 : .14   | Chlorosane, 5 lb bot....lb                         | .55 : .75     |
| Flake 330 lb drs. c/l drs. f.o.b.<br>NY .....ton        | ...  | : 30.50 | Carbon Tetrachloride, 1400 lb drs.<br>NY .....lb                | ... : .10%  | Chlorhydrin, Ethylene anhyd., 600 lb<br>dr. ....lb | .75 : .85     |
| Anhyd., 350 lb drs. f.o.b. NY. ....lb                   | .13  | : .20   | Drums, c/l NY. ....lb   | .09 : .09%  | 40% soln. 100 lb chys....lb                        | .25 : .30     |
| Glycerophosphate, 250 lb bbls....lb                     | 1.50 | : 1.60  | 700 lb drs. single NY. ....lb                                   | ... : .10%  | CHLORINE, Liquid 2000 lb cyl.<br>c/l wks. ....lb   |               |
| Hydrate, (see Lime)                                     |      |         | Carmine, No. 40 5 lb boxes....lb                                | 4.75 : 4.85 | Tank car lots, wks. Contract. ....lb               |               |
| Hypophosphate, USP, 25 lb cans....lb                    | .60  | : .65   | Cassia, edib. 100 lb bags....lb                                 | .40 : .45   | 100 lb cyl. c/l .....lb                            | .05% : .06    |
| Iodide, 5 lb bot.....lb                                 | ...  | : 4.35  | Castoreum, 1 lb boxes....lb                                     | 4.00 : 4.50 | 100 lb cyl. cyl. 1c/l wks. ....lb                  | .06 : .07     |
| Lactate, tech. 500 lb bbls....lb                        | ...  | : .18%  | Technical, 200 lb bbls....lb                                    | ... : .10%  | 100 lb cyl. cyl. 1c/l ex-warehouse. ....lb         | .06 : .08     |
| U.S.P. ....lb   | .50  | : .60   | Castor Oil, USP 50 gal. bbl....lb                               | ... : .14   | Chlorobenzene, mono. 1000 lb drs.<br>wks. ....lb   | .11 : .12     |
| Nitrate, 220 lb bbls, c/l NY. ....ton                   | ...  | : 40.00 | Cases, 80 lb 2 tins....lb                                       | ... : .15   | Drs. c/l wks. ....lb                               | .10 : .11     |
| Phosphate, tech. 350 lb bbls. ....lb                    | .09  | : .10   | Tech., see Fixed Oils   |             | Tank car lots, wks. ....lb                         | .09           |
| Phosphate, precip. tribasic 300<br>lb bbls, wks. ....lb | .10  | : .11   | Caustic Potash, see potash, caustic                             |             | CHLOROFORM, USP 50 lb drs. ....lb                  | .35           |
| Phosphate, mosa. ....lb                                 | .07  | : .09   | Soda, see soda, caustic   |             | Second Hands, 650 lb drs. ....lb                   | .32 : .33     |
| Sulfocarboilate, 100 lb bags....lb                      | .55  | : .57   | Cellulose Acetate, 100 lb cases....lb                           | 1.75 : 2.00 | Technical, 650 lb drums....lb                      | .32 : .33     |
| Calomel, see Mercury                                    |      |         | Cerium Oxalate, USP 100 lb bags. ....lb                         | ... : .43   | Chromium Acetate, 20% soln. 400 lb<br>bbls. ....lb |               |
|   |      |         |   |             | Fluoride, Powd. 400 lb bbls....lb                  | .08 : .10     |
|   |      |         |   |             | Soln. 400 lb bbls....lb                            | ... : ...     |
|   |      |         |   |             | Sulfate, 400 lb bbls....lb                         | .07 : .09     |
|   |      |         |   |             | Chrysarobin, USP, 5 lb cans....lb                  | 2.00 : 2.15   |
|   |      |         |   |             | Cinchonidin alk., p.wd. 100 oz tins....oz          | ... : .76     |
|   |      |         |   |             | Cryst. ....oz                                      | .75           |
|   |      |         |   |             | Sulfate, 100 oz. tins ....oz                       | ... : .50     |

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|  |                     |   |                    |
|--|---------------------|---|--------------------|
| Cinchonidin alk., p.wd. 100 oz. tinsos | ... : .70           | COPPER, metal electrolytic e/l              |                    |
| Crystal                                | ... : .43           | NY ..... 100 lb                             | 12.87 : 18.00      |
| Sulfate, 100 oz. tinsos                | ... : .25           | Lake, e/l NY ..... 100 lb                   | 13.00 : 13.12      |
| Citrine Ointment, see Mercury          |                     | Casting, e/l NY ..... 100 lb                | 12.62              |
| Coal Tar, Tks. bbls., wks...gal        | .06 : .08           | Carbonate, 400 lb bbls.                     | .17 : .17 1/2      |
| Cobalt metal, 100 lb kegs.             | 2.75 : 2.85         | Chloride, 250 lb bbls.                      | .28 : .28          |
| Cobalt Oxide, 500 lb bbls.             | ... : 2.10          | Cyanide, 100 lb drs.                        | .58 : .60          |
| 10 lb tins, 200 lb cases               | ... : 2.35          | Iodide, 5 lb bot.                           | .56 : .65          |
| COCAINE alk., USP, 1 oz. vial...oz     | ... : 10.00         | Oxide, red 1000 lb bbls. ton lots           | .17 : .18          |
| Hydrochloride, USP—1 oz. vials,        |                     | Sub-Acetate, verd. 440 lb bbls. lb          | .23 : .28          |
| 25 ozs.                                | ... : 7.07          | SULFATE, crys. 450 lb bbls. lc/l            |                    |
| In 1/2 oz. vials                       | ... : 7.50          | spot ..... 100 lb                           | 4.80 : 4.90        |
| In crystals, granular, powder,         |                     | Carlots, bbls., f.o.b. NY. 100 lb           | 4.60 : 4.70        |
| or flaky crystals as desired.          |                     | Carlots, bbls., delivered 100 lb            | 4.95 : 5.25        |
| Coca Butter, bulk, 200 lb bales. lb    | .26 : .26 1/2       | Imp. 550 lb cks.                            | 4.50 : 5.00        |
| Fingers, cakes, etc. 12 lb bxs. lb     | .34 : .35           | Powdered, 350 lb 5 bbls.                    | 5.75 : 6.00        |
| CODEIN alk., 1 oz. vls. 10 oz.         |                     | Copperas, bulk e/l wks.                     | ton 18.00 : 20.00  |
| lots                                   | ... : 8.62          | 400 lb bbls. e/l wks.                       | ton 23.00 : 25.00  |
| Hydrobromide, 1 oz. vls. 10 oz.        |                     | 200 lb bgs. e/l wks.                        | ton 21.00 : 23.00  |
| lots                                   | ... : 6.92          | Powdered, bbls.                             | 100 lb 1.90 : 2.00 |
| Hydrochloride, 1 oz. vls. 10 oz.       |                     | Sugar, 400 lb bbls. 100 lb 1.50 : 1.75      |                    |
| lots                                   | ... : 7.77          | Corn Syrup, 42 deg. 50 gal.                 |                    |
| Nitrate, 1 oz. vls. 10 oz. lots.oz     | ... : 7.77          | bbls. ..... 100 lb                          | ... : 3.71         |
| Phosphate, 1 oz. vls. 10 oz.           |                     | 43 deg. 50 gal. bbls. ..... 100 lb          | ... : 3.76         |
| lots                                   | ... : 6.47          | Corrosive Sublimate, see Mercury Bichloride |                    |
| Salicylate, 1 oz. vls. 10 oz.          |                     | Cotton Soluble, 100 lb bbls. wet. lb        | .40 : .42          |
| lots                                   | ... : 6.47          | Coumarin, 25 lb tins.                       | 4.50 : 4.65        |
| Sulfate, 1 oz. vls. 10 oz. lots.oz     | ... : 6.92          | Second Hands                                | ... : 4.35         |
| Small Sizes, 1/2 oz. vials, 50c extra, |                     | CREAM TARTAR, USP, 300 lb                   |                    |
| 1/4 oz. 25c extra, singles 1c extra    |                     | bbls. ..... lb                              | ... : 25 1/2       |
| per oz.—25 oz. lots, 10c oz. cheaper   |                     | Imp. powd. USP, 224 bbls. lb                | 23 1/2 : .24       |
| than above. Less than 10 oz. 15c oz.   |                     | Creosote, USP, 42 lb cbsys.                 | .40 : .42          |
| higher than above.                     |                     | Carbonate, 1 lb bot. 25 lb bbls.            | 1.80 : 2.00        |
| COD LIVER OIL, Norwegian, 30 gal.      |                     | Diaminophenol, 100 lb kegs. lb              | ... : 3.80         |
| bbls.                                  | ... : 24.00 : 25.00 | Dianisidine, 100 lb kegs. lb                | ... : 4.60         |
| Newfoundland, 30 gal. bbls. bbl        | ... : ...           | Dichlorobenzene, 1000 lb drs. lb            | .06 : .07          |
| Colchicine alk., USP 1 oz. vial...oz   | ... : 30.00         | Diethylariline, 850 lb drs. lb              | .50 : .55          |
| Salicylate, 1 oz. vial...oz            | ... : 45.00         | Diethyl Phthalate, 25 lb cans. lb           | .55 : .65          |
| Collodion USP 30 lb drums. lb          | ... : .22           | 1000 lb drs. lb                             | .45 : .50          |
| Ethyl Benzyl Aniline, 300 lb drs. lb   | ... : 1.30          |   |                    |
|  |                     | DIAMINOPHENOL, 100 lb kegs. lb              |                    |
|  |                     | Dianisidine, 100 lb kegs. lb                |                    |
|  |                     | Dichlorobenzene, 1000 lb drs. lb            |                    |
|  |                     | Diethylariline, 850 lb drs. lb              |                    |
|  |                     | Diethyl Phthalate, 25 lb cans. lb           |                    |
|  |                     | 1000 lb drs. lb                             |                    |

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Send us your name on your firm's stationery—then you will receive regularly the Monthly Price List of Industrial Chemicals. Your chemist should also know about "Baker's Analyzed" C-P Reagents and Acids.

## Dependable CHEMICALS

## Chemicals

|  |       |         |  |       |         |                                       |
|--|-------|---------|--|-------|---------|---------------------------------------|
| Ethyl Acetate, 99%, 50 gal. drs. gal   | 1.12  | : 1.15  | Gelatin, USP silver bbl. 100 lb. ca. lb    | .85   | : .90   | Hydrastine, Hydchloride, USP 15 gr.   |
| 85-90% Ester, 50 gal. drs. gal         | ...   | : 1.00  | Gold Label, 100 lb. cases...lb             | ...   | : ...   | vials ..... vial                      |
| Carlots, drums                         | ...   | : .97   | Technical, 100 lb. ca. .... lb             | .60   | : .65   | 1.30 : 2.40                           |
| Tanks Cars                             | ...   | : .95   | GLAUBER'S SALT, tech. 200lb bags           |       |         | Hydrazobenzene 100 lb. kegs...lb      |
| Pure, 5 lb. bot.                       | ...   | : 3.50  | le/l wks. .... 100 lb                      | 1.15  | : 1.25  | 1.30 : 1.35                           |
| Bromide 115 lb. drs. .... lb           | ...   | : .40   | 350 lb. bbls. c/l wks. .... 100 lb         | 1.30  | : 1.35  | HYDROGEN PEROXIDE, 25vol.400lb        |
| Chloride, 15 lb. cyl. .... lb          | ...   | : .35   | Bbls. le/l wks. .... 100 lb                | 1.50  | : 2.00  | bbls. .... lb                         |
| Methyl Ketone, 50 gal. drums. lb       | .25   | : .25%  | Imported, bbls. spot. .... 100 lb          | .85   | : .90   | USP Soln. 375 lb. bbls. .... lb       |
| Morphine, see Morphine, Ethyl          |       |         | USP, 300 lb. bbls. Imp. sp. 100 lb         | ...   | : 1.25  | USP, bot. 4 oz. cases..... gross      |
| Ethylene Bromide, 600 lb. drs. .... lb | ...   | : .60   | USP, 300 lb. bbls. c/l wks. 100 lb         | ...   | : 1.75  | Bot. 8 oz. cases..... gross           |
| Glycol                                 | ...   | : .65   | Calcinated, see Sodium Sulfate             |       |         | Bot. 16 oz. cases..... gross          |
| Chlorhydrin, anhyd. 50 gal. drs. lb    | ...   | : .85   | Glucose, (Grape Sugar) dry, 100            |       |         | 19.75 : 20.00                         |
| 40% Solution, 50 gal. bbls. lb         | .25   | : .30   | 70 lb. bags, c/l NY. .... 100 lb           | ...   | : 3.64  | Hydroquinone, 100 lb. kegs....lb      |
| Dichloride, 50 gal. drs. .... lb       | ...   | : .20   | Syrup, Drs. & bbls. c/l NY 100 lb          | 3.71  | : 3.90  | 1.40 : 1.50                           |
| Ethyldeneaniline                       | ...   | : .70   | le/l NY. .... 100 lb                       | 3.81  | : 4.00  | Hyosine Hydrobrom. USP 1 oz.          |
| Eucalyptol, 25 lb. cans. .... lb       | ...   | : .85   | GLUE, pure white, bbls. .... lb            | .30   | : .35   | vial                                  |
| Feldspar, bulk                         | ton   | : 20.00 | Medium white, bbls. .... lb                | .25   | : .30   | Five oz., 1 oz. vials..... oz         |
| FERRIC CHLORIDE, tech. crys.           |       |         | French, bbls. .... lb                      | .18   | : .25   | 20.50 : .05                           |
| 475 lb. bbls. .... lb                  | ...   | : .08   | High Grade, bbls. .... lb                  | .35   | : .40   | Hyoscamine Alk. Cryst. 1 oz. vial.oz  |
| Imported                               | ...   | : .07   | Bone, regular, bbls. .... lb               | .10   | : .12   | 35.00 : .00                           |
| USP, crys. 100 lb. kegs....lb          | ...   | : .09   | Fish, bbls. .... lb                        | 1.50  | : 1.75  | Alkaloid, Amorphous, 1 oz. vial.oz    |
| Imported                               | ...   | : .08   | GLYCERIN, G. P. 550 lb. drums. lb          | 1.16% | : .17   | 75.00 : .00                           |
| Neut. Sol'n 40% 140 lb. drs. lb        | ...   | : .06%  | Cans, 50 lb. .... lb                       | .18   | : .18%  | Hydrobromide, USP 1 oz. vial.oz       |
| 48% 140 drs. .... lb                   | ...   | : .08   | Dynamite, 100 lb. drs. .... lb             | .16%  | : .16%  | Sulfate, 1 oz. vial. .... oz          |
| USP Sol'n 125 lb. drs. .... lb         | ...   | : .06%  | Saponification, tanks. .... lb             | .12%  | : .12%  | INDOL, C. P. 1 oz. bot. .... oz       |
| Ferrous Chloride, crys. tech.          |       |         | Soap, Lye tanks. .... lb                   | .10%  | : .11   | Iodides, see Potass. Iodide, etc.     |
| 475 lb. bbls. .... lb                  | ...   | : .06%  | Goat Powder, see chrysanthemum             |       |         | INDINE, crude, 200 lb. kegs....lb     |
| Ferrous Sulfide, 1000 lb. bbls. 100 lb | 2.50  | : 3.00  | Graphite, crude 220 lb. bags....ton        | 15.00 | : 35.00 | 4.05 : 4.10                           |
| Flake White, see lead, white           |       |         | Flake, 500 lb. bbls. .... ton              | .05   | : .09   | Resublimed, 10 lb. jars....lb         |
| Fluorspar, 95% 230 lb. bgs. ex.        |       |         | Ground, lump, bbls. .... lb                | .04   | : .05   | 4.55 : .00                            |
| dock                                   | ton   | : 25.00 | Guaiacol, liquid, USP, 25lb. cans. lb      | 2.35  | : 2.50  | Tincture, USP, 50 gal. bbls. gal      |
| 96% bgs. .... ton                      | ...   | : 32.50 | Benzene, 1 lb. bot. .... lb                |       |         | Carboys ..... gal                     |
| 98% bgs. .... ton                      | ...   | : 35.00 | Carbonate, 5 lb. boxes. .... lb            | 5.00  | : 5.25  | Iodoform, powd. 10 lb. bot. .... lb   |
| FORMALDEHYDE, USP 400 lb. bbls.        |       |         | HAARLEM OIL, Dom. 6 gr. ca gross           | 5.15  | : 5.25  | Crystals, 10 lb. bot. .... lb         |
| c/l. wks.                              | lb    | : .11   | Imported, 5 gr. cases. .... gross          | 5.15  | : 5.25  | Iridium, metal 1000 lots. .... oz     |
| Carboys, 100 lb. le/l. wks. .... lb    | .19   | : .12%  | Halazone, 5 lb. bot. .... lb               | 2.75  | : 3.25  | Iron, metal by hydrogen 1 lb. bot. lb |
| Rbis., 400 lb. le/l. wks. .... lb      | .11%  | : .12   | Hexamethylenetetramine, USP                |       |         | 250.00 : .70                          |
| Second Hand                            | lb    | : .11   | 100 lb. drums. .... lb                     | .75   | : .77%  | IRON & AMM. CITRATE, USP 25 lb.       |
| Fossil Flour                           | lb    | : .04   | Imported                                   | lb    | : .85   | cam. .... lb                          |
| Formaldehyde                           | lb    | : .50   | Rubber Makers, Impalp. Pd.                 | .68   | : .73   | Green scales, 25 lb. cans....lb       |
| Fuller's Earth, 300 lb. bgs. a/l       |       |         | dr. .... lb                                |       |         | 6.50 : 6.75                           |
| mines                                  | ton   | : 17.00 | Homatropine Hydrobrom. USP 1 oz.           | .82%  | : .85   | Cacodylate, 10 lb. bot. .... lb       |
| Imported, 230 lb. bags NY. .... ton    | 35.00 | : 46.00 | vial                                       |       |         | Chloride, see ferric or ferrous       |
| Fuel Oil, refined, 100 gal. drs. gal   | ...   | : ...   | Five oz., 1 oz. vials. .... oz             |       |         | Hypophosphite, 5 lb. cans. .... lb    |
| Crude, 100 gal. drum. .... gal         | ...   | : 4.50  | Hydrastine Alk., USP, 1 oz. vials. .... oz |       |         | Syrup, USP VIII. .... lb              |
| G. SALT, paste 350 lb. bbls. bags      |       |         | Hydrochloride, USP 1 oz. vials. .... oz    |       |         | Iodide, 1 lb. bot. .... lb            |
| 100% .... lb                           | ...   | : .65   | Hydroquinone, 100 lb. kegs....lb           |       |         | Syrup, USP 5 lb. bot. .... lb         |
|  |       |         | Sulfate, 1 oz. vial. .... oz               |       |         | Nitrate, kegs. .... lb                |
|  |       |         |  |       |         | Com'l. bbls. .... 100 lb              |
|  |       |         |  |       |         | 2.75 : 3.25                           |
|  |       |         |  |       |         | Oxalate scales 25 lb. cans....lb      |
|  |       |         |  |       |         | .85 : .88                             |
|  |       |         |  |       |         | & Ammon. Oxalate 25 lb. bxs. lb       |
|  |       |         |  |       |         | .03 1/2 : .07 1/2                     |
|  |       |         |  |       |         | & Sodium Oxalate, 25 lb. bxs. lb      |
|  |       |         |  |       |         | .45 : .47                             |
|  |       |         |  |       |         | & Phosphate, USP 25 lb. cans....lb    |
|  |       |         |  |       |         | .45 : .48                             |
|  |       |         |  |       |         | Pyrophosphate, USP 25 lb. cans....lb  |
|  |       |         |  |       |         | .94 : .96                             |

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## Chemicals

|  |           |         |  |            |           |                                    |
|--|-----------|---------|--|------------|-----------|------------------------------------|
| JALAP RESIN, lump 5 lb tins..          | lb 3.25   | : 3.35  | Linalool, 5 lb bot.....                | lb 5.50    | : 6.50    | Manganese—(continued)              |
| Powd. tins .....                       | lb 3.40   | : 3.50  | Litharge, see lead oxide               |            |           | Glycerophosphate, 5 lb tins....    |
| KIESELGUHR, 90lb bags NY....           | ton 60.00 | : 70.00 | Lithium Carb. USP, 100 lb kgs..        | lb 1.50    | : 1.60    | lb ... : 2.85                      |
| LANDOLIN, see Adeps Lanas              |           |         | Bromide, 100 lb ca. ....               | lb 1.75    | : 1.85    | Hypophos. USP VIII 5 lb cans. .... |
| LEAD, metal c/l NY....                 | 100 lb    | 6.85    | Clitate, USP 100 lb kgs....            | lb 1.70    | : 1.75    | Iodide, 1 lb bot.....              |
| Acetate, white crystals 500 lb         |           |         | Iodide, 5 lb bot.....                  | lb ...     | : 5.40    | Ore, bulk NY.....                  |
| bbls. wks. ....                        | lb        |         | Lithopone, 400 lb bbls. 1c/l wks. .... | lb ...     | : .07 1/2 | Sulfate, 600 lb casks NY....       |
| 100 to 250 lb kgs. wks. ....           | lb        |         | Bbls. c/l wks.....                     | lb ...     | : .07     | Marble Flour, bulk.....            |
| White, broken, bbls. wks. 100 lb       | ...       | 13.40   | Bags, c/l wks.....                     | lb ...     | : .07     | See also Calcium Carbonate         |
| White, gran., bbls., wks. 100 lb       | ...       | 13.65   | Imported, 400 lb bbls....              | lb .06     | : .08 1/2 | MENTHOL, USP, 60 lb cases....      |
| White, powd., bbls. wks. ....          | lb        |         | Litmus Cubes.....                      | lb .90     | : 1.00    | lb ... : 14.00                     |
| Kgs. wks. ....                         | lb        |         | MAGNESITE, crude .....                 | ton ...    | : 15.00   | Less cases, 5 lb tins....          |
| Brown, broken, bbls. wks. ....         | lb        |         | Calcined, 500 lb bbls....              | ton ...    | : 55.00   | lb ... : 14.50                     |
| USP, 100 lb kgs. ....                  | lb        |         | Magnesium mtl. sticks 100 lb ca. ....  | lb 1.25    | : 1.30    | MERCURY, metal 75 lb flask....     |
| Arsenate, 100 lb bbls. 1c/l wks. ....  | lb        |         | Carb. tech. 70 lb bags NY....          | lb .08     | : .08 1/4 | 60.50 : 61.00                      |
| Bbls. c/l wks. ....                    | lb        |         | 75 lb bbls. NY.....                    | lb .08 1/2 | : .09     | Less Flasks, 5 lb jugs....         |
| Paste, 600 lb bbls....                 | lb        |         | USP, 60 lb bbls....                    | lb .10     | : .11     | Bichloride, cryst. 25 lb bxs....   |
| Iodide, USP VIII 5 lb bot....          | lb 3.20   | : 3.40  | USP, blocks 100 lb ca. 1, 2, 4         | lb .19     | : .23     | Gran. powd., 200 lb kegs....       |
| Nitrate, 500 lb bbls. wks. ....        | lb        |         | ozs. ....                              | lb ...     |           | Bisulfate, 25 lb boxes....         |
| Oxide, lithge, 500 lb bbls. 100 lb     | 10.90     | 11.15   | Chloride, fused 575 lb drs. c/l        | ton ...    | : 34.00   | Blue Mass, 25 lb boxes....         |
| 100 lb kegs. wks. ....                 | lb        |         | wks. ....                              | ton ...    | : 36.00   | Powdered, 25 lb boxes....          |
| Oxide rec. 500 lb bbls. wks. ....      | lb        |         | Flaked, 350 lb drs. wks c/l ton        | 26.00      | : 28.00   | Blue Ointment, USP 25 lb cans      |
| 100 lb kegs. wks. ....                 | lb        |         | Imp., fused 900 lb bbls. NY....        | ton ...    |           | 50% ....                           |
| Peroxide, 100 lb drs. ....             | lb        |         | Fluoridate, crystals 400 lb bbls.      | lb ...     |           | USP, dilute 25 lb cans 30% ....    |
| White, basic carb. 500 lb bbls.        |           |         | wks. ....                              | lb ...     | : .15     | lb ... : .57                       |
| wks. ....                              | lb        |         | 30% soin. 500 lb bbls. wks. ....       | lb .07     | : .07 1/2 | 33 1/3% Mercury.....               |
| Bbls. c/l wks. ....                    | 100 lb    |         | Soln. bbls. c/l wks. ....              | lb ...     | : .06     | Calomel, 50 lb bxs....             |
| 100 lb kegs. wks. ....                 | lb        |         | Glycerophosphate, 5 lb tins....        | lb ...     | : 3.15    | Citrine Ointment 25 lb jars....    |
| White, sulfate 500 lb bbls. wks. ....  | lb        |         | Hypophosphate, 5 lb cans....           | lb ...     | : 1.15    | lb ... : .80                       |
| Bbls. c/l wks. ....                    | 100 lb    |         | Oxide, USP light 100 lb bbls....       | lb ...     | : .42     | Iodide, green 25 lb jars....       |
| Licorice Ext. Mass, cases....          | lb        |         | USP, heavy 250 lb bbls....             | lb ...     | : .50     | Red, USP 25 lb jars....            |
| Compound powder, bbls. ....            | lb        |         | Peroxide, 5 lb cans....                | lb ...     | : 2.15    | Yellow, USP VIII 25 lb jars. ....  |
| Powdered .....                         | lb        |         | Perborate, 1 lb tins....               | lb ...     | : 2.25    | Red Precip. USP 25 lb bxs....      |
| Sticks, 1 oz. 100 lb cases....         | lb        |         | Salicylate, 100 lb kegs....            | lb ...     | : .67     | Powder, USP 25 lb bxs....          |
| LIME (Salts, see Calcium Salts)        |           |         | Sulfate, see Epsom Salts               |            |           | With chalk, USP 25 lb bxs....      |
| Live, 325 lb bbls. ton lots, wks. .... | lb        |         | Manganese Chloride, 600 lb csk.        |            |           | lb ... : .82                       |
| Single bbl. wks. ....                  | lb        |         | NY .....                               | lb .09 1/2 | : .10     | Meta-Nitro-para-Toluidine, 300 lb  |
| Hydrated, 167 lb bbl. ton lots,        |           |         | Borate, 30% 200 lb bbls....            | lb ...     | : .34     | bbls. ....                         |
| wks. ....                              | lb        |         | 100 lb kegs .....                      | lb ...     | : .25     | Meta-Phenylenediamine, 300 lb      |
| Single bbl. wks. ....                  | lb        |         | Dioxide, 80-84% 900 lb bbls.           |            |           | bbls. ....                         |
| Oyster Shell, 150 lb bbl. single. .... | lb        |         | NY .....                               | ton 80.00  | : 85.00   | Meta-Toluylenediamine, 300 lb      |
| 125 lb bag .....                       | lb        |         | 85-90%, 900 lb bbls. NY....            | ton 85.00  | : 90.00   | bbls. ....                         |
| Sulfur, dry 200 lb drs. NY....         | lb        |         | Hydrated precip. 100 lb kgs. ....      | lb .32     | : .35     | lb ... : .90                       |
| Drs. c/l NY....                        | lb        |         |  |            |           |                                    |
| 33° Soin. 50 gal. bbls. NY. gal        | lb        |         |  |            |           |                                    |

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|   |               |  |                   |   |
|---|---------------|--|-------------------|---|
| <b>METHANOL</b> (Wood Alcohol)            |               | <b>NAPHTHALENE</b> , Flake, 175 lb bbls. |                   | <b>PALLADIUM</b> , metal 10 oz. lots...oz |
| 95%, 50 gal. drums, ext...gal             | .88 : .90     | wks. .... lb                             | .07               | 75.00 : 76.00                             |
| 97%, 50 gal. drums, ext...gal             | .90 : .92     | Bbls. c/l wks. .... lb                   | .06 1/2 : .07     | Pancreatin, USP 5 lb bot....lb            |
| Pure, 50 gal. drums, ext...gal            | 1.00          | Bbls. second hands NY....lb              | .07 : .07 1/2     | Papain, 10 lb bot. USP, Powd...lb         |
| Acetone free, 50 gal. drums, ext...gal    | 1.05          | Balls, 250 lb bbls. wks. .... lb         | .08               | Crude, 150 lb cases....lb                 |
| Bbls. incl. 5¢ higher                     |               | Bbls. c/l wks. .... lb                   | .07 1/2 : .08     | Paraffin, refd 200 lb cs. slab            |
| Methyl Acetone, 100 gal. drums...gal      | 1.17 : 1.20   | Bbls. second hands NY....lb              | .08               | 120-125 Deg. M. P. .... lb                |
| Tank cars.....lb                          | 1.15          | Crushed, chipped, bgs. wks. .... lb      | .05 1/2 : .06     | 125-130 Deg. M. P. .... lb                |
| Chloride, 90 lb cyl.....lb                | .50           | Crude, imp. bags....lb                   | .02 1/2 : .03     | 130-135 Deg. M. P. .... lb                |
| Salicylate, USP, 50 lb cases....lb        | .47           | Nickel Metal, electrolytic 100 lb        |                   | 135-140 Deg. M. P. .... lb                |
| 500 lb drums.....lb                       | .45           | kegs. .... lb                            | .30               | Para-Aminocetanilid, 100 lb               |
| Second Hands, cases....lb                 | .43 : .44     | Ingot, 100 lb kegs....lb                 | .29 : .32         | kegs. .... lb                             |
| Methylene Blue, tech. 100 lb kgs...lb     | 1.00 : 1.50   | Salt, single 400 lb bbls. NY....lb       | .11 : .12         | Para-Aminophenol, 100 lb kegs....lb       |
| USP, medicinal 5 lb cans....lb            | 2.25 : 2.60   | Double, 400 lb bbls. NY....lb            | .10 : .11         | Hydrochloride, 100 lb kegs....lb          |
| Michler's Katone, 225 lb bbls....lb       | 3.75          | Oxide, 100 lb kegs NY....lb              | .40 : .42         | Para-Dichlorobenzene, 50-300 lb bbls.     |
| Milk, powd. 150 lb bbls....lb             | .14 : .15     | Sulfate, 450 lb bbls....lb               | .07 : .07 1/2     | wks. .... lb                              |
| Milk Sugar, see sugar of milk             |               | Nitr. Cake, bbls. wks. .... ton          | .55 : 6.00        | 25-50 lb kegs .... lb                     |
| Mineral Oil, see oil mineral              |               | 500 lb bbls. .... ton                    | 13.00 : 14.00     | Paraldehyde, 100 gal drs....lb            |
| Mineral Rubber .....ton                   | 33.00 : 54.00 | Nitrobenzene, crude, 1000 lb drs.        |                   | Paraformaldehyde, USP 100 lb cs. lb       |
| Monochlorobenzene, see chlorobenzene      |               | wks. .... lb                             |                   | Para-Nitroacetanilid, 300 lb              |
| Monothiylaniline, 900 lb drs....lb        | 1.00          | Redistilled, 1000 lb drs. wks. .... lb   | .09 : .09 1/2     | bbls. .... lb                             |
| Monomethyl para-diphenol sulfate          |               | Nitronaphthalene, 550 lb bbls....lb      | .20 : .21         | PARA-NITROANILINE, 300 lb bbls.           |
| 100 lb drs....lb                          | 4.00          | Nitrotoluene, mixed 1000 lb drs.         |                   | wks. ton .... lb                          |
| MORPHINE Sulfate, USP 5 oz. tins          |               | wks. .... lb                             | .14 : .15         | Para-Nitrochlorobenzene, 1200 lb drs.     |
| 10 oz. ....oz                             | .65           | Ochre. ....lb                            | ... : .03 1/2     | wks. .... lb                              |
| Acetate, 5 oz. tins 10 oz. lots.oz        | .65           | Oil Fusel, see Fusel Oil                 |                   | Para-Nitro-ortho-Toluidine, 300 lb        |
| Hydrobromide, 5 oz. tins 10 oz.           |               | OIL MINERAL, wh. 50 gal. bbls...gal      | 1.00 : 1.25       | bbls. .... lb                             |
| tot. ....oz                               | .65           | Oil Mirbane, see nitrobenzene            |                   | Para-Nitrophenol, 185 lb bbls....lb       |
| Hydchloride, 5 oz. tins 10 oz.            |               | Opium, see crude drugs                   |                   | Para-Nitrodimethylaniline, 120 lb         |
| lots. ....oz                              | .65           | Orange Mineral, 800 lb cans NY....lb     | .15 1/2 : .16     | bbls. .... lb                             |
| Diacetyl Alk., 1/2 oz. vls. 10            |               | 500 lb bbls. NY....lb                    | .15 1/2 : .16 1/2 | Para-Nitrotoluene, 350 lb bbls....lb      |
| oz. ....oz                                | 10.20         | Ortho-Aminophenol, 50 lb kegs....lb      | 2.50 : 2.75       | Para-oxy-Benzaldehyde, 100 lb             |
| Hydchloride, 1/2 oz. vls. 10 oz.oz.       | 9.25          | Ortho-Anisidine, 100 lb drs....lb        | ... : ...         | kegs. .... lb                             |
| Ethyl Hydchloride, 1/2 oz. vls. 10        |               | Ortho-Dichlorobenzene, 1000 lb drs.      |                   | Para-Phenetidin, 500 lb drs....lb         |
| oz. ....oz                                | 10.45         | wks. .... lb                             | .06 : .08         | Para-Phenylenediamine, 350 lb             |
| Small Sizes: 1/4 oz. vials, 50¢ extra;    |               | Ortho-Nitrochlorobenzene, 1200 lb        |                   | bbls. .... lb                             |
| 1/4¢ 25¢ extra; single oz. vls. 7¢ extra, |               | dr. wks. .... lb                         | .18 : .20         | Para-Toluene-Sulfonamide, 175 lb          |
| tra. over price for 5 oz. tins. 25 oz.    |               | Ortho-Nitrophenol, 350 lb 3 bbls....lb   | ... : 1.25        | bbls. .... lb                             |
| lots in 5 oz. tins, 10¢ oz. lower than    |               | Ortho-Nitrotoluene, 1000 lb drs.         |                   | Para-Toluene-Sulfonchloride, 410 lb       |
| above schedule. Less than 10 oz. lots     |               | wks. .... lb                             | .10 : .11         | bbls. .... lb                             |
| 15¢ oz. higher than above schedule.       |               | Ortho-Toluidine, 350 lb bbls....lb       | .13 : .14         | Para-Toluidine, 350 lb bbls. wks. .... lb |
| Musk Ambrette, 1 lb cans....lb            | 14.00 : 15.00 | Oxgall, USP 5 lb bot....lb               | .30               | .85 : .90                                 |
| NAPHTHA, Solvent, 110 gal. drs.           |               |  |                   |   |
| wks. ....gal                              | .28 : .30     |  |                   |   |
| 8000 gal. tank cars whs....gal            | .24 : .25     |  |                   |   |

DU PONT

**Phthalic Anhydride**

WASTE of valuable storage space as well as expensive freight and handling costs are unavoidable when using ordinary grades of Phthalic Anhydride, which occur as long, bulky needle crystals.

We have developed a finely divided crystalline type that is especially suitable for making dyes or alcohol denaturants. It is unsurpassed in chemical purity and far superior in physical structure to any other brand.

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60 FIFTH AVENUE - - - - - NEW YORK

## Chemicals

|  |                   |
|--|-------------------|
| <b>PARIS GREEN</b>   |                   |
| Arsenic Basis, 500 lb. kegs...lb                                 | .26 : .28         |
| Kegs, 100 lbs. ....lb  | .28 : .30         |
| Kgs., 56, 28, 14 lbs. ....lb                                     | .31 : .33         |
| Packages, 5 and 2 lbs. ....lb                                    | .32 : .33         |
| Packages, 1 lb. 1/2, 1/4 lbs. ....lb                             | .34 : .38         |
| Paris White, see whitling, French                                |                   |
| Pepsin, USP 5 lb. bot. ....lb                                    | 2.25 : 2.50       |
| PETROLATUM, green 300 lb. bbls. ....lb                           | .02 1/2 : .03     |
| Dark Amber 300 lb. bbls. ....lb                                  | .03 1/2 : .04     |
| Light Amber, 300 lb. bbls. ....lb                                | .04 1/2 : .05     |
| Cream White, USP 300 lb. bbls. ....lb                            | .07 : .07 1/2     |
| Lily White, USP, 300 lb. bbls. ....lb                            | .09 : .09 1/2     |
| Snow White, USP, 300 lb. bbls. ....lb                            | .13 1/2 : .15     |
| Phenol, see also carbolic  |                   |
| American makers, drums wks. ....lb                               | ... : .26         |
| Open market, drs. ....lb   | .25 : .26         |
| 240 lb. des. drs. wks. ....lb                                    | ... : .26         |
| Natural 240 lb. des. drs. wks. ....lb                            | ... : .26         |
| Imported, 336 lb. des. drs. ....lb                               | ... : .26         |
| Phenolphthalein, USP, 100 lb. drs. ....lb                        | 1.40 : 1.50       |
| 5 lb. cans, 100 lb. lots. ....lb                                 | 1.50 : 1.60       |
| Phenyl-Alpha-Naphthylamine 100 lb. kegs. ....lb                  | ... : ...         |
| Phenylethylalcohol, 1 lb. bot. ....lb                            | 6.75 : 8.75       |
| Imported. ....lb   | 7.75 : 9.75       |
| Phosgene, 100 lb. cylinders. ....lb                              | ... : 1.00        |
| Phosphorus Oxychloride, 175 lb. cyl. ....lb                      | .35 : .40         |
| Phosphorus, red 110 lb. cs. wks. ....lb                          | ... : .75         |
| Imported, 112 lb. cases. ....lb                                  | ... : ...         |
| Yellow, 110 lb. cs. wks. ....lb                                  | .35 : .40         |
| Imported, 112 lb. cases. ....lb                                  | ... : ...         |
| Phosphorus Trichloride, 175 lb. cyl. wks. ....lb                 | ... : .45         |
| Phthalic Anhydride, 100 lb. bbls. ....lb                         | .25 : .30         |
| Pilocarpine Hydrochloride, USP, 25 oz. lots, 1 oz. vials. ....oz | ... : 7.50        |
| Nitrate. ....oz  | ... : 7.50        |
| Single ounce. ....oz   | ... : 7.75        |
| Alkaloid, 15 gr. vials. ....oz                                   | ... : .85         |
| Piperazine Hydrate, 1 lb. bot. ....lb                            | ... : 16.00       |
| Pitch, Coal-Tar, wks. ....ton                                    | 30.00 : 35.00     |
| Plaster Paris, tech. 250 lb. bbls. ....lb                        | ... : 3.30        |
| True Dental, 300 bbls. ....bbl                                   | ... : 4.50        |
| Platinum, metal soft 10 oz. lots—ox. ....oz                      | ... : 125.00      |
| Podophyllin, 5 lb. bot. ....lb                                   | 6.00 : 6.25       |
| Second Hands. ....lb   | 5.25 : 5.75       |
| <b>POTASH, CAUSTIC, solid 88-92%</b>                             |                   |
| 700 lb. drs. wks. ....lb   | .07 : .07 1/2     |
| Imp., 88-92% 700 lb. drs. NY. ....lb                             | .07 : .07 1/2     |
| USP, by alcohol 5 lb. cans. ....lb                               | .46 : .48         |
| cases. ....lb  | .30 : .35         |
| <b>POTASSIUM Acetate, USP, 100 lb. kegs</b>                      |                   |
| ... ....lb   | .30 : .31         |
| Bicarbonate, crys. 220 lb. bbls. ....lb                          | .11 : .12         |
| Bichromate, crys. 900 lb. casks wks. ....lb                      | .09 1/2 : .09 1/2 |
| Powd., 900 lb. casks wks. ....lb                                 | ... : .12         |
| Binoxalate, 300 lb. bbls. ....lb                                 | .33 : .34         |
| Bisulfate, C.P., 5 lb. cans. ....lb                              | ... : .30         |
| 100 lb. kegs. ....lb   | ... : .22         |
| Bromate, 100 lb. cs. ....lb                                      | ... : .45         |
| <b>BROMIDE, USP cryst. 450 lb. bbls.</b>                         |                   |
| ... ....lb   | .26               |
| Granular, 300 lb. bbls. ....lb                                   | ... : .26         |
| Cases 100 lb. ....lb   | ... : .27         |
| Imported, USP, 220 lb. cs. ....lb                                | .16 : .17         |
| <b>CARBONATE, 80-85% calc.</b>                                   |                   |
| 800 lb. cks. ....lb  | .06 1/2 : .06 1/2 |
| 80-85%, hydrated, 800 lb. cks. ....lb                            | .06 1/2 : .07     |
| 90-95% calc. casks. ....lb                                       | .06 1/2 : .06 1/2 |
| 96-98% calc. casks. ....lb                                       | .06 1/2 : .07 1/2 |
| 99% calc. casks. ....lb  | .08 1/2 : .09 1/2 |
| USP, 100 lb. kegs. ....lb  | .11 : .12         |
| 98% CP casks. ....lb   | .13 1/2 : .14     |
| <b>POTASSIUM-(Continued)</b>                                     |                   |
| Chlorate, crys. 112 lb. kgs. c/l wks. ....lb                     | .08 1/2 : .08 1/2 |
| Imp. 112 lb. kegs. NY. ....lb                                    | ... : .08         |
| Powd., 112 lb. kegs wks. ....lb                                  | .08 1/2 : .09     |
| Imp., kegs. NY. ....lb   | ... : .07 1/2     |
| Pyrotechnic, fine powd. NY. ....lb                               | .08 : .09         |
| USP, fine crys. 110 lb. kegs. NY. ....lb                         | .08 : .09         |
| Cratare, USP 10 lb. cans. ....lb                                 | .63 : .66         |
| Cyanide 110 lb. cases. ....lb                                    | ... : .65         |
| Glycerocephosphate, 75% Soln. 25 lb. tins. ....lb                | 1.60 : 1.70       |
| Guaiacol Sulfonate, 5 lb. cans. 10 lb. ....lb                    | 1.75 : 2.00       |
| Hydrophosphate, 10 lb. cans. ....lb                              | .80 : .85         |
| Iodide, USP, 100 lb. cases. ....lb                               | 3.75 : 3.85       |
| Second Hands, cases. ....lb                                      | ... : 3.65        |
| Lactophosphate, 40z. bot. ....os                                 | ... : .90         |
| Metabisulfite, 300 lb. bbls. ....lb                              | ... : .23         |
| Imp., 300 lb. bbls. ....lb                                       | .12 1/2 : .14     |
| Muritate, 80%, 200 lb. bags, NY K <sub>2</sub> O unit. ....lb    | ... : .68         |
| Nitrate, see Saltpetre   |                   |
| Oxalate, neutral, 100 lb. kegs. ....lb                           | .40 : .45         |
| Perchlorate, 112 lb. kgs. ....lb                                 | .09 : .10         |
| <b>PERMANGAN, USP, crys. 500 lb drs. wks.</b>                    |                   |
| ... ....lb   | .17 : .17 1/2     |
| Imp. 112 lb. drs. ....lb   | .16 1/2 : .17     |
| Prussiate, red, 100 lb. bbls. ....lb                             | ... : .60         |
| 500 lb. casks. ....lb  | ... : .55         |
| Prussiate, yellow, 500 lb. casks. ....lb                         | .25 : .28         |
| Salicylate, 25 lb. cans. ....lb                                  | ... : .75         |
| Sulfate, 200 lb. bags, NY K <sub>2</sub> O unit. ....lb          | ... : .94         |
| USP, VIII, 100 lb. kegs. ....lb                                  | .15 : .18         |
| Sulfocyanide, CP 25 lb. jars. ....lb                             | ... : .50         |
| Tartrate, neutral, 100 lb. kegs. ....lb                          | ... : .53         |
| Titanium Oxalate 200 lb. bbls. ....lb                            | .28 : .30         |

Largest producers of Pure Phthalic Anhydride in the world



**SELDEN**

99.99+% Pure.

Brand PHTHALIC ANHYDRIDE

is the Product by which all other  
Brands may be Standardized.

**IT-IS-PURE**

Unless Phthalic Anhydride melted in a TEST TUBE, has the same colorless appearance as SELDEN BRAND, it contains foreign matter which proves it is *not* STANDARD.

It is possible that trouble in commercial or research work can be traced directly to the use of *impure* Phthalic Anhydride.

**THE SELDEN COMPANY**

Pittsburgh, Pa., U. S. A.

## Chemicals

| QUININE—(continued)  |          |        |         |           |  |  |
|--|----------|--------|---------|-----------|--|--|
| Tartarate  | .....    | os     | ...     | : .88     |  |  |
| Valerate   | .....    | os     | ...     | : .89     |  |  |
| Small Sizes: 1oz vials or cans,<br>50oz. lots, 5c or extra; 500 cans,<br>500s lots 3c or extra; 250 cans,<br>500s lots, 2c or extra; single 1oz<br>vials or cans, 5c extra. All minor<br>quinine salts sold and quoted basis<br>1000s lots in 1000s cans. Sulfate<br>and bisulfate sold basis 1000s<br>lots in 1000s cans. Smaller orders<br>or containers extra as above<br>schedule. |          |        |         |           |  |  |
| R. SALT, 250 lb bbls, wks.   | .....    | lb     | .55     | : .70     |  |  |
| Red Lead, see lead oxide   |          |        |         |           |  |  |
| Red Precipitate, see mercury   |          |        |         |           |  |  |
| Resorcin, see resorcinol   |          |        |         |           |  |  |
| Resorcinol tech, 100 lb kgs.   | .....    | lb     | 1.35    | : 1.50    |  |  |
| USP, 25 lb cans  | .....    | lb     | 2.25    | : 2.35    |  |  |
| Rochelle Salt, USP, 225 lb bbls.   | .....    | lb     | .20     | : .21     |  |  |
| Imp. USP, 300 lb bbls.   | .....    | lb     | .19 1/2 | : .20     |  |  |
| Rosewater, triple, 5gal demin.   | .....    | gal    | .90     | : 1.10    |  |  |
| Rotten Stone, lump imp., bbls.   | .....    | lb     | .07     | : .08     |  |  |
| Lump selected, bbls.   | .....    | lb     | .09     | : .12     |  |  |
| Powdered, bbls.  | .....    | lb     | .02     | : .05     |  |  |
| Domestic, bags, mines.   | ton      |        | 24.00   | : 30.00   |  |  |
| SACCHARIN, USP, 1 lb cans, 25 lb   | .....    | lb     | 1.90    | : 2.10    |  |  |
| Soluble, USP, 1 lb cans, 25 lb.  | .....    | lb     | 1.90    | : 2.10    |  |  |
| Sal Ammoniac, see Ammon. Chloride  |          |        |         |           |  |  |
| Salicin, USP, 1 lb cartons, 25 lb.   | .....    | lb     | 5.00    | : 5.25    |  |  |
| Salol, USP, 100 lb drums.  | .....    | lb     | .80     | : .85     |  |  |
| Salt, Common, see sodium chloride  |          |        |         |           |  |  |
| Salt Cake, c/l f.o.b. wks.   | ton      |        | 21.00   | : 25.00   |  |  |
| SALTPETRE, Double Refined  |          |        |         |           |  |  |
| Granular, 400-500 lb bbls.,  |          |        |         |           |  |  |
| c/l wks.   | .....    | lb     |         | : .06 1/2 |  |  |
| Less c/l works, bbls.  | .....    | lb     |         | : .06 1/2 |  |  |
| Large Crystals, 350-400 lb bbls.,  |          |        |         |           |  |  |
| c/l wks.   | .....    | lb     |         | : .08     |  |  |
| Small Crystals, 350-400 lb bbls.,  |          |        |         |           |  |  |
| c/l wks.   | .....    | lb     |         | : .07 1/2 |  |  |
| Powdered, bbls. c/l wks.   | .....    | lb     |         | : .07 1/2 |  |  |
| Imported, 500 lb bbls., NY.  | lb       |        |         | : .07     |  |  |
| SANTONIN USP, 1 lb bot.  | lb       | 150.00 |         | : 158.00  |  |  |
| Powd. 1 lb bot.  | lb       |        |         |           |  |  |
| Saponin, ex Quillaja, 5 lb tins.   | lb       | 1.00   |         | : 1.25    |  |  |
| Satin White, 500 lb bbls.  | lb       |        |         |           |  |  |
| Schaeffer's Salt, 250 lb bbls. wks.  | lb       | .60    |         | : .65     |  |  |
| Scopolamine, see hyoscine.   |          |        |         |           |  |  |
| Seldits Mixture, 225 lb bbls.  | lb       | .17    |         | : .18     |  |  |
| SILICA   |          |        |         |           |  |  |
| Crude, bulk, mines.  | ton      | 10.00  |         | : 12.00   |  |  |
| Refined, floated, bags.  | ton      | 18.00  |         | : 30.00   |  |  |
| Air floated, bags.   | ton      | 32.00  |         | : 50.00   |  |  |
| Extra floated, bags.   | ton      | 55.00  |         | : 65.00   |  |  |
| SILVER, metal, American.   | os       |        |         |           |  |  |
| Foreign  | os       |        |         |           |  |  |
| Colloidal, 16oz. bot.  | os       |        |         |           |  |  |
| Water Iodide, 16oz. bot.   | os       |        |         |           |  |  |
| Nitrate, USP, 200oz. bot.  | os       |        |         |           |  |  |
| Nuclein, 16oz. bot.  | os       |        |         |           |  |  |
| Proteinate, 16oz. bot.   | os       |        |         |           |  |  |
| Soap, Castle, 40 lb bxs.   | lb       | .20    |         | : .35     |  |  |
| Powd. USP, 250 lb bbls.  | lb       | .28    |         | : .29     |  |  |
| Green, USP, 150 lb kgs.  | lb       | .07    |         | : .07 1/2 |  |  |
| Soapstone, see Talc, crude   |          |        |         |           |  |  |
| SODA ASH, 58% light bags   | NY       |        |         |           |  |  |
| flat, ex-warehouse   | 100 lb   |        |         |           |  |  |
| Bags, ex-warehouse   | 100 lb   |        |         |           |  |  |
| Contract, Basis 58% bags c/l   | wks.     |        |         |           |  |  |
| Prompt and spot, Basis 58% bags  | c/l wks. |        |         |           |  |  |
| c/l wks.   | 100 lb   |        |         |           |  |  |
| Soda Ash, 58% dense bags ex-   |          |        |         |           |  |  |
| warehouse, NY  | 100 lb   |        |         |           |  |  |
| Bags, ex-warehouse   | 100 lb   |        |         |           |  |  |
| Contract, Basis 58% bags c/l   | wks.     |        |         |           |  |  |
| Prompt and spot, Basis 58% bags  | c/l wks. |        |         |           |  |  |
| c/l wks.   | 100 lb   |        |         |           |  |  |
| Prices on soda alkalies are based on actual  |          |        |         |           |  |  |
| percentages and not N. Y. & L. test.   |          |        |         |           |  |  |
| SODA, CAUSTIC, 76% solid, resale,  |          |        |         |           |  |  |
| NY flat  | 100 lb   | 3.30   |         | : 3.50    |  |  |
| 76% solid drs. ex-warehouse  |          |        |         |           |  |  |
| NY   | 100 lb   |        |         | : 3.65    |  |  |

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INCORPORATED

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Telephone Bowling Green 3770

ALUM (Potash)

AQUA AMMONIA

AMMONIUM CARBONATE

AMMONIUM CHLORIDE

BARIUM CARBONATE

BARIUM CHLORIDE

BARIUM SULPHOCYANIDE

CALCIUM CHLORIDE

FORMIC ACID

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QUININE  
Sulphate and Minor SaltsUnexcelled in Uniformity of Quality  
Brilliant Crystallization and Purity of ColorCinchonine, Cinchonidine  
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and their SaltsTHEOBROMINE  
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Solvay 58% Soda Ash  
Dense—Light—Extra light (Fluf)  
Solvay 76% Caustic Soda  
Solid—Flake—Ground  
Solvay Super Alkali {<sup>15%</sup><sub>36%—45%</sub>  
Solvay Snow Flake Crystals  
Solvay Laundry Soda  
Solvay Cleansing Soda  
Solvay Tanners Alkali  
Solvay Tanners Soda  
Solvay Liquid Caustic Soda



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## Chemicals

## SODA CAUSTIC—(Continued)

|   |  |  |  |
|---|--|--|--|
| Contract basis 76% c/l whs.   |  |  |  |
| 100 lb. ... : 3.10  |  |  |  |
| Pmp't and spot, Basis 76% c/l whs. .... 100 lb. ... : 3.20                    |  |  |  |
| Contract 74% low grade c/l whs. flat .... 100 lb. ... : 3.02                  |  |  |  |
| Ground & flake, 76% pmp't and pot, whs c/l drns. .... 100 lb. ... : 3.60      |  |  |  |
| Contract, 76% drums, c/l whs. flat .... 100 lb. ... : 3.50                    |  |  |  |
| 76% drs. ex-warehouse NY 100 lb. .... 100 lb. ... : 4.06                      |  |  |  |
| USP, stick, 10 lb. cans. .... lb. ... : .19 ... : .21                         |  |  |  |
| Pure, stick, by alcohol. .... lb. ... : .25 ... : .27                         |  |  |  |
| SODIUM ACETATE, cry. 450 lb. bbls. whs. .... lb. ... : .05 ... : .05%         |  |  |  |
| Ton lots, bbls. whs. .... lb. ... : .05                                       |  |  |  |
| Imp. 500 lb. cans. .... lb. ... : .06%  |  |  |  |
| Aluminum Sulfate, see alum. soda.   |  |  |  |
| Bromate, USP, 100 lb. bags. .... lb. ... : .65 ... : .68                      |  |  |  |
| Bicarbonate, 400 lb. bbls. NY 100 lb. .... lb. ... : 2.25                     |  |  |  |
| Bbls. c/l whs. .... 100 lb. ... : 2.00  |  |  |  |
| 112 lb. kegs whs. .... 100 lb. ... : 2.25                                     |  |  |  |
| 112 lb. kegs NY. .... 100 lb. ... : 2.50                                      |  |  |  |
| Bichromate, 600 lb. cans whs. .... lb. ... : .08                              |  |  |  |
| Casks, c/l whs. .... lb. ... : .07% ... : .07%                                |  |  |  |
| Casks, NY. .... lb. ... : .07% ... : .07%                                     |  |  |  |
| Bisulfite, dry powder, 500 lb. bbls. whs. .... lb. ... : .04%                 |  |  |  |
| Solution, 32-40%, 500 lb. bbls. whs. .... 100 lb. ... : 1.25 ... : 1.75       |  |  |  |
| Bromate, 100 lb. c. .... lb. ... : .95  |  |  |  |
| Bromide, USP, 450 lb. bbls. .... lb. ... : .24                                |  |  |  |
| Cases, 100 lb. .... lb. ... : .35   |  |  |  |
| Imp. USP, 112 lb. c. .... lb. ... : .18 ... : .19                             |  |  |  |
| Cyanhydrate, USP, 5 lb. bot. 25 lb. .... lb. ... : 5.50 ... : 5.75            |  |  |  |
| Carbonate, sal soda, 350 lb. bbls. c/l NY. .... 100 lb. ... : 1.30 ... : 1.35 |  |  |  |
| Works, c/l NY. .... 100 lb. ... : 1.10 ... : 1.30                             |  |  |  |
| Monohydrate, 400 lb. bbls. c/l NY. .... 100 lb. ... : 2.45                    |  |  |  |
| Pure photographic, 100 lb. keg. .... lb. ... : .08 ... : .09                  |  |  |  |

## SODIUM—(Continued)

|  |  |  |
|--|--|--|
| Chlorate, 112 lb. kegs, whs. .... lb. ... : .06% ... : .06%                    |  |  |
| Imported, 112 lb. kegs. .... lb. ... : .06%                                    |  |  |
| Chloride, tech. 200 lb. bags. ton. ... : 12.00 ... : 13.00                     |  |  |
| C. P. 300 lb. bbls. .... lb. ... : .05 ... : .06                               |  |  |
| Citrate, USP, IX, 100 lb. kegs. .... lb. ... : .62                             |  |  |
| USP, VIII, 100 lb. kegs. .... lb. ... : .55                                    |  |  |
| Cyanide, 96-98%, 100 lb. cases whs. .... lb. ... : .23                         |  |  |
| Ton lots, whs. .... lb. ... : .23  |  |  |
| 73-76%, 100 lb. cases, whs. .... lb. ... : .20%                                |  |  |
| 125-128%, 200 lb. cs. .... lb. ... : .20                                       |  |  |
| 120-125%, 200 lb. cs. .... lb. ... : .19%                                      |  |  |
| Fluoride, 350 lb. bbls. NY imp. lb. ... : .09% ... : .09%                      |  |  |
| Glycero-phos. USP, cry. 25 lb. cans. .... lb. ... : 1.65 ... : 1.75            |  |  |
| Powder, 25 lb. tins. .... lb. ... : 1.70 ... : 1.80                            |  |  |
| Solution, USP, 25 lb. tins. .... lb. ... : 1.00 ... : 1.05                     |  |  |
| Hydroxide, see Soda Caustic  |  |  |
| Hypo-chlorite, Soln, 100 lb. cryo. lb. ... : .05                               |  |  |
| 14 1/2% soln, 50 lb. cryo. .... lb. ... : .04                                  |  |  |
| Hydroxide, 200 lb. bbls. fob. whs. .... lb. ... : .19 ... : .22                |  |  |
| Hypophosphate, USP, 25 lb. cans. .... lb. ... : .70 ... : .75                  |  |  |
| HYDROSULFITE, tech. per cryo. 375 lb. bbls. whs. 100 lb. ... : 2.90 ... : 3.30 |  |  |
| Bbls. c/l whs. .... 100 lb. ... : 2.75   |  |  |
| 100 lb. kegs whs. .... 100 lb. ... : 3.00 ... : 3.60                           |  |  |
| Granulated, bbls. whs. .... 100 lb. ... : 3.15 ... : 3.55                      |  |  |
| Bbls. c/l whs. .... 100 lb. ... : 3.00   |  |  |
| Kegs whs. .... 100 lb. ... : 3.25 ... : 3.85                                   |  |  |
| Regular crystals .... 100 lb. ... : 2.65 ... : 2.90                            |  |  |
| Iodide, USP, 25 lb. jars. .... lb. ... : 4.25                                  |  |  |
| Metanilate, 150 lb. bbls. .... lb. ... : .55 ... : .60                         |  |  |
| Naphthionate, 300 lb. bbls. .... lb. ... : .60 ... : .62                       |  |  |
| Nitrate, crude, 95%, 200 lb. bags. c/l NY. .... 100 lb. ... : 2.42 1/2         |  |  |
| Futures, NY. .... 100 lb. ... : 2.42 1/2                                       |  |  |
| Double Refined, 400 lb. bbls. gran. c/l whs. .... lb. ... : .04%               |  |  |
| Nitrite, 500 lb. bbls. whs. .... lb. ... : .07% ... : .07%                     |  |  |
| Bbls. spot. makers. .... lb. ... : .07% ... : .07%                             |  |  |
| Imp. 650 lb. cans. .... lb. ... : .07% ... : .07%                              |  |  |

## SODIUM—(Continued)

|   |  |  |
|---|--|--|
| Ortho-Chloro-para-Toluene Sulfo-nate, 175 lb. bbls. whs. .... lb. ... : .25 ... : .27 |  |  |
| Oxalate, neutral, 100 lb. kegs. .... lb. ... : .40                                    |  |  |
| Perborate, 275 lb. bbls. .... lb. ... : .22   |  |  |
| Imp., 225 lb. drs. .... lb. ... : .18 ... : .19                                       |  |  |
| Peroxide, 200 lb. cases. .... lb. ... : .25 ... : .27                                 |  |  |
| Phosphate, di-sodium, tech. 550 lb. bbls. .... lb. ... : .03% ... : .08%              |  |  |
| USP, gran. 275 bbls. .... lb. ... : .07 ... : .07%                                    |  |  |
| Imp. gran. .... lb. ... : .05% ... : .06  |  |  |
| USP, recrys. 275 bbls. .... lb. ... : .10 ... : .11                                   |  |  |
| Mono-sodium 100 lb. kegs. .... lb. ... : .24 ... : .26                                |  |  |
| Tri-sodium tech. c/l. bbls. .... lb. ... : .04% ... : .05                             |  |  |
| Picramate, 100 lb. kegs. .... lb. ... : .08 ... : .09                                 |  |  |
| Para-Toluene Sulfonate, 175 lb. bbls. .... lb. ... : .08 ... : .09                    |  |  |
| PRUSSIATE, yellow, 250 lb. bbls. .... lb. ... : .13%                                  |  |  |
| Imp. 450 lb. cans. .... lb. ... : .11 1/2 ... : .12                                   |  |  |
| Pyrophosphate, 100 lb. kegs. .... lb. ... : .18 ... : .22                             |  |  |
| Salicylate, 100 lb. kegs. .... lb. ... : .40  |  |  |
| Second Hands, USP, kegs. .... lb. ... : .37 ... : .40                                 |  |  |
| Silicate, 60° 700 lb. bbls. f.a.s. NY. .... 100 lb. .... lb. ... : 2.00               |  |  |
| Works, 1000 lb. drums. .... 100 lb. .... lb. ... : 1.90                               |  |  |
| Works, tanks. .... 100 lb. .... lb. ... : 1.75  |  |  |
| 40° domestic, 700 lb. c/l. f.o.b. whs. .... 100 lb. .... lb. ... : .80                |  |  |
| Works, 1000 lb. drums. .... 100 lb. .... lb. ... : .82%                               |  |  |
| Works, tanks. .... 100 lb. .... lb. ... : .75   |  |  |
| Spot, drums, bbls. .... 100 lb. .... lb. ... : 1.30 ... : 1.50                        |  |  |
| Silicofluoride, 450 lb. bbls. NY. .... lb. ... : .07% ... : .07%                      |  |  |
| Sulphate, see Glauber's Salt.   |  |  |
| Sulfate, Anhydrous, 550 lb. bbls. c/l. .... lb. ... : .03% ... : .04                  |  |  |
| Sulfide, 60% solid, 650 lb. bbls. le/l. whs. .... lb. ... : .04% ... : .05            |  |  |
| Drs. c/l whs. .... lb. ... : .03% ... : .04   |  |  |
| Imp. 700 lb. drs. NY. .... lb. ... : .03% ... : .03%                                  |  |  |
| 60% broken, 650 lb. drs. whs. .... lb. ... : .04% ... : .05                           |  |  |
| Imp., 500 lb. drs. NY. .... lb. ... : .03% ... : .04                                  |  |  |
| 30% crys. 400 lb. bbls. whs. .... lb. ... : .02 ... : .02%                            |  |  |
| Imp., 400 lb. bbls. .... lb. ... : .02 ... : .02%                                     |  |  |
| Sulfite, crys. 400 lb. bbls. whs. .... lb. ... : .03% ... : .03%                      |  |  |
| Desiccated, 400 lb. bbls. .... lb. ... : .09% ... : .10                               |  |  |



MICHIGAN ALKALI CO.  
Wyandotte, Mich.

## SODA ASH

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## BIGARBONATE OR SODA

Sole Selling Agents  
EDWARD HILL'S SON & CO.  
21 East 40th Street, New York

"Distinguished for their High Test and Uniform Quality"

**BENZALDEHYDE**  
**BENZYL CHLORIDE**  
**SODIUM NITRITE**  
**PROTECTIVE PAINTS**  
For Iron and Steel  
**SALICYLIC ACID**  
**SODIUM SALICYLATE**  
**METHYL SALICYLATE**  
**MONOCHLOR-BENZOL**  
**PARADICHLORO-BENZOL**  
**YELLOW PRUSSIATE OF SODA**  
**CALCIUM CHLORIDE 73-75%**  
**CALCIUM CHLORIDE ANHYDROUS**  
**CAUSTIC POTASH**  
**SALT**

**SEMET-SOLVAY**  
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CHICAGO, ILL.  
Tel. Harrison 3580

40 Rector Street  
NEW YORK CITY  
Tel. Bowling Green 2578

77 Summer Street  
BOSTON MASS.  
Tel. Fort Hill 4990

## Chemicals

## SODIUM—(Continued)

|   |         |         |
|---|---------|---------|
| Sulfocarbonate, USP, 100 lb<br>kegs   | .37     | .39     |
| Sulfocyanide, 400 lb bbls...lb  | .45     | .47     |
| Tungstate, cry. 100 lb kegs...lb  | ...     | .55     |
| Desiccated, kegs  | ...     | .65     |
| Solvent Naphtha, see Naphtha  |         |         |
| Spartein Sulfate, USP, 25oz bulk oz   | .60     | .70     |
| Single oz. vial   | ...     | .77     |
| Starch, rice, 140 lb bags...lb  | .09     | .10     |
| STRONTIUM Bromide, USP, 100 lb<br>kegs  | ...     | .33     |
| Carb. 600 lb bbls. wks...   | ...     | .07     |
| 100 lb kegs wks...  | ...     | .08     |
| Iodide, USP, 25 lb jars...lb  | ...     | 4.00    |
| Nitrate, 600 lb bbls. wks...lb  | ...     | .11 1/2 |
| Imp., bbls. NY...lb   | .11 1/2 | .12     |
| Salicylate, USP, 100 lb kegs...lb   | .65     | .70     |
| STRYCHNINE Alkaloid, USP, cry.  |         |         |
| 100oz. tins   | ...     | .95     |
| Alk. powd., USP...oz  | ...     | .85     |
| Acetate   | ...     | 1.05    |
| Glycero-phosphate, USP  | ...     | 1.05    |
| Hydrobromide  | ...     | 1.05    |
| Hydrochloride   | ...     | 1.05    |
| Hydrophosphate  | ...     | 1.15    |
| Nitrate, USP  | ...     | 1.05    |
| Phosphate   | ...     | 1.05    |
| Sulfate, USP, cry. powd...oz  | ...     | .68     |
| Saccharinate  | ...     | 2.15    |
| Strychnine preparations quoted<br>100oz lots in 100oz tins. Small Sizes;<br>1/4 oz vials, 50c extra; 1/2 oz vials, 25c<br>extra; single ounce vials, 7c extra. Lots<br>of 25 oz. 5c higher than above<br>schedule. Lots of less than 25 oz.<br>10c higher per oz. |         |         |
| Sugar Milk USP, 200 lb bbls...lb  | .21     | .22     |
| Second Hands, USP, bbls...lb  | .21     | .22     |
| Sulfonal, see Sulfonmethane   |         |         |
| Sulfonethylmethane, USP, 5 lb bxs...lb  | 3.50    | 3.70    |
| Sulfonmethane, USP, 5 lb bxs...lb   | 2.40    | 2.60    |

|   |          |         |
|---|----------|---------|
| SULFUR, crude, bulk, c/l NY...ton         | 19.00    |         |
| Crude, f.o.b. mines...ton                 | 15.00    |         |
| Brimstone, 250 lb bags, c/l 100 lb        | 1.75     | .95     |
| Less c/l bags NY...100 lb                 | 1.85     | 2.10    |
| Roll, 500 lb bbls, c/l NY, 100 lb         | ...      | 2.15    |
| Less c/l bags NY...100 lb                 | 2.20     | 2.45    |
| Flour, Heavy, 290 lb bbls, 100 lb         | 2.50     | 3.05    |
| Light, 100%, 260 lb bbls, 100 lb          | 2.60     | 3.15    |
| Rubbermakers 100%, 240 lb<br>bbls, NY     | 2.60     | 3.15    |
| Commercial, 99%, 150 lb bgs.<br>NY        | 1.85     | 1.85    |
| For Dusting, 99%, 100 lb<br>bgs. NY       | 1.00     | 2.50    |
| Flowers, 100%, 240 lb bbls                | 2.00     | 2.50    |
| NY  | 3.00     | 3.55    |
| Precipitated, 125 lb bbls NY...lb         | .14      | .16     |
| Lac, 125 lb bbls NY...lb                  | .07      | .10     |
| Sulfur Chloride, red, 700 lb drs.<br>wks  | .06      | .07     |
| 150 lb clys. wks                          | ...      | .08     |
| Yellow, 700 lb drs. wks                   | .05      | .06     |
| 150 lb clys. wks                          | ...      | .07     |
| Sulfur Dioxide, 100 lb cyl...lb           | .08      | .08 1/2 |
| Iodide, USP, VIII, 5 lb bot...lb          | ...      | 4.55    |
| Sulfuric Ether, see Ether                 |          |         |
| Sulfuryl Chloride, 600 lb drs...lb        | ...      | .70     |
| TALC, Italian, 220 lb bags NY...ton       | 35.00    | 40.00   |
| Refined white, bags...ton                 | 42.00    | 55.00   |
| French, 220 lb bags NY...ton              | 25.00    | 30.00   |
| Refined, white bags...ton                 | 32.00    | 45.00   |
| Dom., crude, 100 lb bags NY...ton         | 10.00    | 15.00   |
| Refined, 100 lb bags NY...ton             | 18.00    | 25.00   |
| Tartar Emetic, tech, 700 lb bbls...lb     | .25      | .36     |
| USP, 300 lb bbls...lb                     | ...      | .34 1/2 |
| Terpin Hydrate, USP, 100 lb kegs...lb     | .60      | .62     |
| Terpinol, CP, 1000 lb drums...lb          | .54      | .55     |
| Cans, 50 lb                               | .58      | .60     |
| Imported, cans, 25 lb                     | .95      | 1.20    |
| Terpenyl Acetate, 25 lb cans...lb         | 1.65     | 1.85    |
| Terra Alba, No. 1, 300 lb bbls/100 lb     | 1.85     | 1.90    |
| No. 2, bbls...lb                          | 1.25     | 1.35    |
| Theobromine Alk. 5 lb cans...lb           | ...      | 5.75    |
| and Soda Salicylate, 1 lb bot...lb        | ...      | 3.50    |
| Thiocarbanilid, 170 lb bbls...lb          | .28      | .30     |
| Thymol, USP, 25 lb tins...lb              | 3.00     | 3.25    |
| Iodide, 5 lb boxes...lb                   | 6.75     | 7.00    |
| TIN, Metal Straits, NY...100 lb           | ...      | 46.50   |
| American standard, NY...100 lb            | ...      | 46.25   |
| 99% American, NY...100 lb                 | ...      | 46.00   |
| Bichloride, 50% soln, 100 lb<br>bbls. wks | ...      | .12 1/2 |
| Crystals, 500 lb bbls. wks...lb           | ...      | .32     |
| 100 lb kegs, wks                          | ...      | .32 1/2 |
| Oxide, 400 lb bbls. wks...lb              | ...      | .49     |
| 100 lb kegs wks                           | ...      | .51     |
| Tetrachloride, 1000 lb drs. wks...lb      | ...      | .26 1/2 |
| Tolidine, 350 lb bbls...lb                | 1.00     | 1.10    |
| Sulfate, 350 lb bbls...lb                 | ...      | 1.10    |
| Toluene, 800gal tank cans, wks/gal        | .23      | .24     |
| 110gal drs. wks                           | ...      | .30     |
| Toluidine, Mixed, 900lb drs. wks...lb     | .31      | .32     |
| Trichlorophenol, 100 lb cases...lb        | ...      | 1.00    |
| Trional, see Sulfonethylmethane           |          |         |
| Triphenylguanidine                        | ...      | .80     |
| Triphenyl Phosphate, 450 lb bbls...lb     | .50      | .60     |
| Tripol, 500 lb bbls...lb                  | 2.50     | 3.00    |
| Tungsten NY                               | Wt. 2.25 | 10.00   |
| Ultramarine Blue                          | ...      | .18     |
| UREA, pharm. 112 lb cases...lb            | ...      | .36     |
| VANILLIN, USP, 400oz cans...oz            | .50      | .50 1/2 |
| Cane, 80 oz                               | ...      | .50 1/2 |
| Cane, 16 ozs                              | ...      | .51 1/2 |
| Venetian Rod                              | ...      | .05     |
| Verdigris, see Copper Subacetate          |          |         |
| Vermilion, Amer. 100 lb kegs...lb         | ...      | .35     |
| English, kegs                             | ...      | .18     |
| Veratrine Sulfate, 1oz vial...oz          | ...      | 2.00    |
| Hydrochloride, 1oz vial...oz              | ...      | 2.00    |
| Veronal, see Acid Diethylbarbituric       |          |         |
| WHITE LEAD, see lead, white               |          |         |
| White Precipitate, see mercury.           |          |         |
| Whiting, 200lb bags, c/l wks...ton        | 14.00    | 16.00   |
| Bags, 1/2/l NY...ton                      | ...      | 22.50   |
| Gilders, bags, NY...ton                   | 13.50    | 15.00   |
| French, bags, NY...ton                    | ...      | 18.00   |
| English, bags, NY...ton                   | ...      | 23.00   |
| Witch Hazel Extract, 50gal. bbls/gal      | 1.20     | 1.35    |



Soda Ash

Modified Soda      Bicarbonate of Soda

Caustic Soda      Special Alkali

Textile Soda

Manufactured and Sold by

DIAMOND ALKALI COMPANY

GENERAL OFFICES - PITTSBURGH, PA.

## Chemicals

XYLENE, 3° dist. range, nitration  
tks. wks. gal. .50 : .55

110gal. drs. NY. gal. .50 : .55

5° dist. range, 8000gal tanks  
wks. gal. . . . .

110gal. drs. wks. gal. . . . .

Commercial, 110 gal drs. wks. gal. .34

Tanks, wks. gal. . . . .

Kyldine, 900 gal drs. gal. . . . .

YARA YARA, 1lb tins. . . . .

Yohimbine Hydrochloride, 1 oz. vial. oz. 7.25 : 7.50

ZINC, METAL, high grade, slabs  
c/l NY . . . . .

Common Slabs, c/l NY. 100 lb. .850 : .850

Moisy, 25lb bx's NY. . . . .

Ammonium Chloride, powd, 400 lb  
bbls. . . . .

Carb. tech. 150 lb kegs NY. . . . .

USP, 100 lb kegs. . . . .

Chloride, fused, 600 lb drs.wks. . . . .

Drs. c/l wks. . . . .

Imp. drs. NY. . . . .

Granulated, 500 lb bbls.wks. . . . .

Imported, drs. NY. . . . .

USP, 25lb jars. . . . .

Cyanide, 100 lb drs. . . . .

Dust, 100 lb tins wks. . . . .

500 lb bbls, kegs, c/l wks. . . . .

500 lb bbls, kegs, c/l wks. . . . .

Iodide, 5 lb bots. . . . .

Nitrate 25 lb jars. . . . .

Oxide, Amer. 300 lb bbls, wks. . . . .

Bbls. c/l wks. . . . .

French, 300 lb bbls wks. . . . .

Bbl c/l wks. . . . .

Bags, c/l wks. . . . .

USP, 100 lb bbls. c/l. . . . .

Ton lots, wks. . . . .

Imported, white seal, bbls. . . . .

Green seal, bbls. . . . .

USP, 100 lb bbls. . . . .

Stearate, USP, 50 lb bbls. . . . .

Sulfate, 400 lb bbls, wks. . . . .

Bbls, c/l wks. . . . .

USP, 100 lb kegs. . . . .

Sulfocarbonate, 100 lb kegs. . . . .

## Oils

Castor, No. 1, 400lb bbls. . . . .

80lb cases . . . . .

No. 3, bbls. . . . .

Blown, 400lb bbls. . . . .

Coast, tanks, Dec. forward. . . . .

China Wood, bbls., spot NY. . . . .

8000 gal. tks. NY. . . . .

Dec., Jan. forward, bbls. China. . . . .

Tanks, Dec. forward. . . . .

Manila, tanks, P. Coast. . . . .

Edible, bbls. NY. . . . .

Tanks, NY. . . . .

Cochin, 375lb bbls, NY. . . . .

Tanks, NY. . . . .

Cottonseed, crude tks, mills. . . . .

P. S. Y., 100 bbl. lots NY. . . . .

White, 100 bbl. lots NY. . . . .

Winter yellow, 100 bbls, NY. . . . .

Corn, ref. 375lb bbls, NY. . . . .

Crude, tanks mills. . . . .

Bbls., NY. . . . .

Degras, Amer. 50 gal. bbls., NY. . . . .

English, bbls., NY. . . . .

Neutral, bbls., NY. . . . .

Greasers, choice white, bbls., NY. . . . .

Yellow. . . . .

Brown. . . . .

House. . . . .

Bone naphtha. . . . .

Herring, Tanks, Coast. . . . .

Horse. 375lb bbls, NY. . . . .

Lard, prime steam bbls. . . . .

Compound, bbls. . . . .

LARD OIL, Edible prime, bbls. . . . .

Off prime, bbls. . . . .

Extra, bbls. . . . .

Extra No. 1, bbls. . . . .

No. 2 bbls. . . . .

LINSEED, raw c/l bbls, spot. . . . .

Five bbls., raw. . . . .

Bolled, 5 bbl. lots. . . . .

Double bolled 5 bbl. lots. . . . .

Raw, c/l bbls. . . . .

Tanks. . . . .

Dec. . . . .

Jan., c/l bbls. . . . .

Feb., Apr., c/l bbls. . . . .

Imported, bbls., NY. . . . .

Tanks, NY. . . . .

Menhaden, crude, bbls., wks. . . . .

Crude, tanks. . . . .

Light strained, tanks. . . . .

Light strained, bbls., NY. . . . .

Yellow bleached, bbls., NY. . . . .

Extra bleached, bbls., NY. . . . .

Blown, bbls., NY. . . . .

Neatfoot, 20° c/l bbls., NY. . . . .

Extra, bbls., NY. . . . .

Pure, bbls., NY. . . . .

Oleo OIL, No. 1, bbls., NY. . . . .

No. 2, bbls., NY. . . . .

No. 3, bbls., NY. . . . .

OLIVE, denatured bbls., NY. . . . .

Edible, bbls., NY. . . . .

Foots, bbls., NY. . . . .

Shipment. . . . .

Palm Lagos, 1500lb casks. . . . .

Niger casks. . . . .

Bonny old Calabar, casks. . . . .

Palm Kernel, 1500lb casks NY. . . . .

Peanut, refined bbls., NY. . . . .

Crude, mills buyers' tks. . . . .

Crude, bbls., NY. . . . .

Perilla, bbls., NY. . . . .

Poppyseed, bbls., NY. . . . .

2.25 : 2.50



LES USINES

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LA PLAINE-GENEVA  
SWITZERLAND



Arecoline

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## Oils and Fertilizers

|   |         |           |   |          |         |  |     |         |
|---|---------|-----------|---|----------|---------|--|-----|---------|
| Rapeseed, refined bbls, NY.....gal      | .78     | : .77     | Cyanamide wks.....unit  | 2.20     | : 2.25  | Rosin Oil, first run, 50 gal. bbls.gal | ... | : .48   |
| Blown, bbls, NY.....gal                 | .93     | : .95     | Fish Scrap, dried wks.....unit                                  | 4.20     | & .10   | Second run, bbls.....gal               | ... | : .47   |
| Red Oil, distilled, bbls.....lb         | ...     | : .09%    | Acid, Bulk, 7 & 3/4, wks.unit                                   | ...      |         | Tar, kiln-burnt.....bbl                | ... | : 11.00 |
| Saponified, bbls.....lb                 | ...     | : .09%    | NITRATE SODA, NY.....100 lb                                     | 2.42 1/4 | : 2.45  | Retort.....bbl                         | ... | : 11.00 |
| Tanks.....lb                            | ...     | : .08%    | Phosphate Rock, f.o.b. mines,<br>Florida pebble, 68-75%.....ton | 3.25     | : 4.50  |  |     |         |
| Salmon, 8000 gal. tks, Coast.....lb     | ...     | : ...     | Tennessee, 72%.....ton  | ...      | : 5.50  |  |     |         |
| Sesame, domestic edible bbls.....lb     | ...     | : .12%    | Phosphate Acid, 16% Bulk wks.....ton                            | 8.00     | : 8.50  |  |     |         |
| Sod Oil, bbls, NY.....gal               | ...     | : .45     | Potassium Muriate, 80%.....unit                                 | ...      | : .88   |  |     |         |
| SOYA BEAN, crude tks, Coast.....lb      | .09%    | : .10     | Sulfate.....unit  | ...      | : .93   |  |     |         |
| Crude, Tks. D.P., NY.....lb             | ...     |           | Steamed Bone Meal, NY.....ton                                   | 32.00    | : 35.00 |  |     |         |
| Crude, bbls, NY.....lb                  | .11     | : .11%    | Tallow, ground, NY.....unit                                     | 3.65     | & .10   |  |     |         |
| Sperm, 38° c.t. bich, bbls, NY.gal      | ...     | : .94     | High grade f.o.b. Chicago.....unit                              | 3.50     | & .10   |  |     |         |
| 45° cold test, bichd, bbls, NY.gal      | ...     | : .89     |   |          |         |  |     |         |
| STEARIC ACID, a.p., 200 lb. bags. lb    | .12%    | : .13%    |   |          |         |  |     |         |
| Double pressed, bags.....lb             | .13     | : .13%    |   |          |         |  |     |         |
| Double pressed, bgs., saponified.....lb | .13     | : .13%    |   |          |         |  |     |         |
| Triple pressed, bgs., distilled.....lb  | .14 1/4 | : .14%    |   |          |         |  |     |         |
| Triple pressed, bgs., saponified.....lb | .14 1/4 | : .14%    |   |          |         |  |     |         |
| Stearine, oleo, bbls.....lb             | ...     | : .11     |   |          |         |  |     |         |
| Lard, bbls.....lb                       | ...     | : .15     |   |          |         |  |     |         |
| Tallow, edible, tallow.....lb           | ...     | : .10 1/2 |   |          |         |  |     |         |
| City, extra, loose.....lb               | .08     | : .08%    |   |          |         |  |     |         |
| Tallow Oil, acidized tks. NY.....lb     | ...     |           |   |          |         |  |     |         |
| Bbls, c/t NY.....lb                     | ...     | : .11%    |   |          |         |  |     |         |
| Walnut, crude bbls, NY.....lb           | —       |           |   |          |         |  |     |         |
| Walnut, nat. winter bbls, NY.....gal    | ...     | : .77     |   |          |         |  |     |         |
| Bichd. winter bbls, NY.....gal          | ...     | : .79     |   |          |         |  |     |         |
| Extra Bichd. bbls, NY.....gal           | ...     | : .81     |   |          |         |  |     |         |
| Crude, No. 1, tanks Coast.....gal       | ...     |           |   |          |         |  |     |         |
| Crude, No. 2, tanks Coast.....gal       | ...     |           |   |          |         |  |     |         |
| Crude, No. 3, tanks Coast.....gal       | ...     |           |   |          |         |  |     |         |

## Fertilizer Materials

|                                     |       |         |
|-------------------------------------|-------|---------|
| Ammon. Sulf., bulk wks.....100 lb   | 8.00  | : 8.10  |
| Double, bags, f.o.s. NY.....100 lb  | 8.00  | : 8.40  |
| Single bags, wks.....100 lb         | 8.05  | : 8.10  |
| Blood, dried f.o.b. NY.....unit     | ...   | : 4.00  |
| Bone, 3 & 50 ground steamed.....ton | 25.00 | : 28.00 |
| Raw, Chicago.....ton                | ...   | : 30.00 |

## Naval Stores

(Carloads ex-yard N. Y.)

|  |     |        |
|--|-----|--------|
| Spirits Turpentine, bbls.....gal   | ... | : .94  |
| Wood Turpentine, sm. distd. bbls.gal   | ... | : .84  |
| Destructive distilled, bbls.....gal  | ... | : .68  |
| Pine Oil, sm. dist'd, bbls.....gal   | ... | : .62  |
| Pitch, prime.....bbl   | ... | : 6.50 |
| Rosins, (Sold in 600 lb. bbls, gross for net, quotations based on a unit of 280 lb.) |     |        |
| B.....280 lb   | ... | : 5.80 |
| D.....280 lb   | ... | : 5.80 |
| E.....280 lb   | ... | : 5.80 |
| F.....280 lb   | ... | : 5.80 |
| G.....280 lb   | ... | : 5.80 |
| H.....280 lb   | ... | : 5.80 |
| I.....280 lb   | ... | : 5.80 |
| K.....280 lb   | ... | : 5.80 |
| M.....280 lb   | ... | : 5.90 |
| N.....280 lb   | ... | : 6.15 |
| WG.....280 lb  | ... | : 6.75 |
| WW.....280 lb  | ... | : 7.00 |

## Extracts

Range of prices includes quality range for large quantity.

|                                    |     |       |
|------------------------------------|-----|-------|
| Anatto, fine.....lb                | .26 | : .29 |
| Archil, double 600 lb. bbls.....lb | .16 | : .18 |
| Triple, 600 lb. bbls.....lb        | .17 | : .19 |
| Conc., 600 lb. bbls.....lb         | .18 | : .20 |

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# DRUG & CHEMICAL MARKETS

3 Park Place, New York

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## Crude Drugs

## BALSAMS

|                                     |            |         |                                       |            |         |                                     |            |         |
|-------------------------------------|------------|---------|---------------------------------------|------------|---------|-------------------------------------|------------|---------|
| Copaiba, Para, 80 lb cs.....        | lb .23 :   | .25     | Cannabis, true Imp. bags.....         | lb ..      | 5.75    | Cloves, Zanzibar, 135 lb bales...   | lb .35 :   | .37     |
| South American, 80 lb cs.....       | lb .27 :   | .28     | American (no assay) bales.....        | lb .80     | .85     | Amboynas, bales .....               | lb ..      | ...     |
| Fir Canada, cans.....               | gal 12.80  | 13.00   | USP .....                             | lb 1.70    | 1.85    | Penang, bales .....                 | lb ..      | ...     |
| Oregon, bbls., cans.....            | gal 2.15   | 2.25    | Cantharides, Chinese cases.....       | lb 1.05    | 1.10    | Cochineal, USP. boxes.....          | lb .35     | .37     |
| Peru, 120 lb cases.....             | lb 1.75    | 1.80    | Powdered, boxes .....                 | lb 1.25    | 1.30    | Coca Leaves, Huancayo bags.....     | lb ..      | ...     |
| Tolu, 90 lb cases.....              | lb 2.25    | 2.50    | Cantharides, Russian, cases.....      | lb 1.25    | 1.30    | Truxillo, bags .....                | lb ..      | ...     |
| Bamboo Brier Root, bags.....        | lb .06     | .07     | Powdered, boxes .....                 | lb 1.60    | 1.65    | Cohosh Root, Black bags.....        | lb .15     | .16     |
| Barberry Bark, tree bales.....      | lb .22     | .24     | Caraway Seed, African, bags.....      | lb .24 1/4 | .25     | Blue, bags .....                    | lb .16     | .17     |
| Bayberry Bark, bales .....          | lb .11     | .13     | Dutch, 110 lb bags.....               | lb .25 1/2 | .26     | Colchicum Root, bags.....           | lb .08     | .09     |
| Wax, bbls.....                      | lb .26     | .27     | Cardamom, bleach cases.....           | lb 1.50    | 2.00    | Seed, bags .....                    | lb .10     | .11     |
| Belladonna Leaves, bales .....      | lb .18     | .18 1/2 | Decorticated, cases .....             | lb 1.65    | 1.75    | Colombia Root, whole bags.....      | lb .03     | .04     |
| Root, bags .....                    | lb .12     | .13     | Carnauba Wax, Flor. bags.....         | lb .52     | .53     | Colocynth, apples, cases, bales...  | lb .17     | .22     |
| Bees Wax, white bbls.....           | lb .36     | .38     | No. 1 N Country bags.....             | lb .40     | .42     | Pulp, USP, bales.....               | lb .33     | .35     |
| Yellow, refined bbls.....           | lb .22     | .24     | No. 2 N Country bags.....             | lb .24     | .26     | Cat'sfoot Leaves, bags.....         | lb .06     | .07     |
| Crude, bags .....                   | lb .23     | .24     | No. 3 Fatty Gray, bags.....           | lb .18 1/2 | .19 1/2 | Comfrey Root, bags.....             | lb .13     | .14     |
| Benzoin Gum, Siam, boxes.....       | lb 1.30    | 1.35    | No. 3 Chalky, bags.....               | lb .19 1/2 | .20     | Condurango Bark, bales.....         | lb .12 1/2 | .13     |
| Sumatra, 80 lb boxes.....           | lb .27     | .28     | Cascara Amarga, 150 lb bales...       | lb .30     | .32     | Conium Seeds, bags .....            | lb ..      | .16     |
| Berberis Aquifolium Root, bags..... | lb .14 1/2 | .15     | Cascara Sagrada, bales, Old.....      | lb .28     | .32     | Copaiba Balsam Para, see Balsams    | ...        | ...     |
| Beth Root, bags .....               | lb .30     | .32     | New .....                             | lb .27     | .30     | Copal Gum .....                     | lb .12     | .13 1/2 |
| Blackshaw Bark, root, bales.....    | lb .41     | .42     | Cascara Bark, quills bales.....       | lb .56     | .40     | Coriander Seed, Bombay bags...      | lb .05     | .07     |
| Tree, bales .....                   | lb .28     | .30     | Slippings, bbls.....                  | lb .20     | .25     | Morocco bags .....                  | lb .10 1/4 | .10 1/2 |
| Blood Root, bags .....              | lb .15     | .16     | Casta Buds, 66 lb cases.....          | lb .12 1/2 | .13     | Bleached, bags .....                | lb .14 1/2 | .15 1/2 |
| Blueflag Root, bags .....           | lb .23     | .25     | China, select, mats cases.....        | lb .09     | .09 1/2 | Corn Silk, bales.....               | lb .05 1/2 | .06     |
| Bolde Leaves, bales .....           | lb .20     | .21     | Saigon, assort. bales .....           | lb .24     | .26     | Cotton Root Bark, bales.....        | lb .22     | .25     |
| Boneset Herb, bales .....           | lb .08     | .11     | Cassia Fistula, baskets .....         | lb .10     | .11     | Cramp Bark, so-called bales...      | lb ..      | .08     |
| Borage Flowers, bales.....          | lb .18     | .20     | Castor Beans, bags .....              | lb .03     | .03 1/2 | True, bags .....                    | lb .40     | .42     |
| Bryonia Root, bags .....            | lb .09     | .10     | Castoreum, 1 lb bot.....              | lb 4.00    | 4.50    | Cranesbill Root, bags.....          | lb .10     | .11     |
| <b>BUCHU LEAVES, short, 250 lb</b>  |            |         | Catechu Gum, bags .....               | lb .09     | .10     | <b>CUBEB BERRIES, XX bags...</b>    | lb .70     | .75     |
| bales .....                         | lb .90     | .95     | Catnip Herb, bales .....              | lb .15     | .17     | Powdered, boxes .....               | lb .75     | .78     |
| less, bales .....                   | lb 1.00    | 1.05    | Celery Seeds, 220 lb bags.....        | lb .28     | .29     | Culvers Root, bags .....            | lb .35     | .38     |
| Long, bales .....                   | lb ..      | ...     | Ceresin Wax, white bags.....          | lb .09     | .10     | Cumin Seed, Levant bags.....        | lb .27     | .28     |
| Buckthorn Bark, bags .....          | lb .06     | .07     | Yellow, 200 lb bags.....              | lb .08     | .09     | Morocco, bags .....                 | lb .27     | .29     |
| Burdock Root, bags .....            | lb .19     | .20     | <b>CHAMOMILE FLOWERS, Roman</b>       |            |         | Cuttlefish Bone, Trieste, straps... | lb .15     | .16     |
| Burgundy Pitch, dom, 110 lb stands  |            |         | bales .....                           | lb 1.00    | 1.10    | Jeweler's large, straps .....       | lb ..      | .55     |
| Gross for net.....                  | lb ..      | .05     | Hung, cases bales .....               | lb .08 1/2 | .09     | Small, straps .....                 | lb ..      | .35     |
| Calabar Beans, bags.....            | lb .12     | .14     | Charcoal Willow, powd. bbls...        | lb .06     | .06 1/2 | French, straps .....                | lb ..      | .15     |
| Calamus Root, bleached cases.....   | lb .36     | .38     | Wood, powd. bbls.....                 | lb .04     | .05     | Powdered, boxes .....               | lb ..      | .16     |
| Unbleached, bags .....              | lb .10     | .12     | Chestnut Bark, bags .....             | lb .07     | .08     | Broken, boxes .....                 | lb .07     | .07 1/2 |
| Calendula Petals, imp. bales.....   | lb ..      | .30     | Herb, bales .....                     | lb .08     | .08 1/2 | Damar Gum, 136 lb cases.....        | lb .25 1/2 | .26     |
| Calisaya Bark, bales, powd.....     | lb .27     | .30     | Chicory, bags .....                   | lb .75     | 1.00    | Damiana Leaves, bales .....         | lb .13     | .15     |
| Camphor, see Chemicals              |            |         | Chiretta, bags .....                  | lb .10     | .12     | Dandelion Root, Imp., bags .....    | lb .28     | .30     |
| Canary Seed, Morocco bags.....      | lb ..      | .06     | Cinchona Bark, red quills bales ..... | lb .45     | .50     | Deer Tongue Leaves, bales .....     | lb .09     | .10     |
| South American, bags .....          | lb ..      | .05 1/2 | Broken, bales .....                   | lb .26     | .28     | Digitally Leaves, bags .....        | lb .07     | .08     |
| Candellia Wax, bags .....           | lb .23     | .25     | Cinnamon, Ceylon, bales, bond. lb     | lb .22     | .22 1/2 | Dill Seed, bags .....               | lb .08 1/2 | .09     |
| Canella Alba Bark, bales.....       | lb .51     | .52     | Civet, Abyssinian horns .....         | oz 2.75    | 3.75    |                                     |            |         |
|                                     |            |         | Clover Tops, bags .....               | lb .27     | .29     |                                     |            |         |

We carry in stock and offer for sale:

Culvers Root  
Helonias Root  
Mandrake Root  
Black Cohosh Root  
Black Haw Bark of Root  
Black Haw Bark of Tree  
Blood Root  
Burdock Root  
Calamus Root  
Echinacea Root (Augustifolia)  
Echinacea Root (Purpurea)  
Golden Seal Root  
Rosin Weed Root  
Rosin Weed Herb  
Scull Cap Leaves (Western)

Canada Snake Root  
Aletris Root  
Pink Root  
Blue Cohosh Root  
Black Indian Hemp Root  
Blue Flag Root Natural  
Blue Flag Root Stripped  
Cranesbill Root  
Lady Slipper Root  
Pleurisy Root (Western)  
Poke Root  
Queen of the Meadow Root  
Solomon Seal Root  
Scull Cap Herb (Western)  
May Pop Leaves

Spikenard Root  
Wahoo Bark of Root  
Wahoo Bark of Tree  
Sweet Anise Root  
Yellow Dock Root  
Serpenteria Root  
Yellow Root (Xanthorrhiza)  
American Cannabis  
Elm Bark Grinding  
Prickley Ash Bark (Southern)  
Prickley Elder Bark  
Stramonium Leaves  
Wild Cherry Bark  
Boneset Herb  
Boneset Leaves

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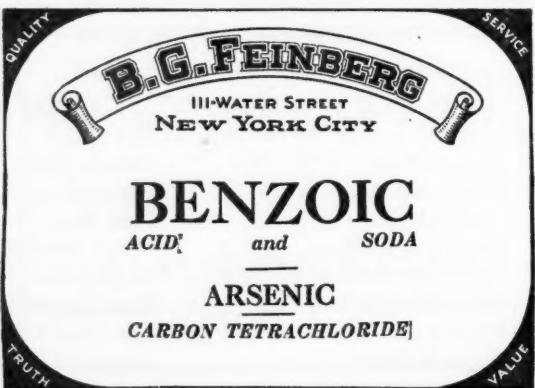
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## Crude Drugs

|   |  |   |                                      |   |                          |
|---|--|---|--------------------------------------|---|--------------------------|
| Dogwood Bark, Jamais bags...<br>Flowers, bales  | .10% : .12<br>.09 : .15                        | Gindella, Robusta, Herb, bales...<br>Guaiac Gum, 80 lb cases...<br>Guarana, tins, cases...<br>GUM, see Arabic Gum, etc. | .07 : .07%<br>.28 : .30<br>.60 : .70 | LADY SLIPPER ROOT, bags...<br>Larkspur Seed, bags                   | .51 : .65<br>1.00 : 1.10 |
| Dosgram Root, U.S.P., cut bags...<br>Reeds, boxes   | .12 : .14<br>.45 : .50<br>1.25 : 1.30          | HELLEBORE ROOT,<br>Black, bals. ....<br>Powders   | .08 : .10<br>.15 : .17               | Lavender Leaves, bales  | .04% : .05               |
| Dragon's Blood, mass cases...<br>Reeds, boxes   | .45 : .50<br>1.25 : 1.30                       | White, Powd. 250 lb bals.   | .16 : .17                            | Lavender Flowers, Ordinary<br>Selected                              | .35 : .40<br>.38 : .42   |
| ECHINACEA ROOT, bags...<br>Elaecampane Root, bags...<br>Elder Flowers, bags               | .26 : .31<br>.09 : .10<br>.14 : .16            | HELONIAS Root, (unicorn false)<br>bags  | .88 : .90<br>.05 : .05%              | Leeches, tubs   | Per 100 : 6.00           |
| Ela Bark, select, 5 lb bundles cases...<br>Grinding, bags                                 | .32 : .34<br>.10 : .12                         | Hemp Seed, Manchurian bags...<br>Chilian, bags  | .36 : .38<br>.30 : .35               | Lemon Peel, bags  | .09 : .10                |
| Ela Bark, select, 5 lb bundles cases...<br>Grinding, bags                                 | .32 : .34<br>.10 : .12                         | Henbane Leaves, bales, U.S.P.<br>No array   | .36 : .38<br>.12% : .13              | Licorice Root, Russian whole...<br>Spanish, natural bales           | .07% : .08<br>.08 : .09% |
| Ela Bark, select, 5 lb bundles cases...<br>Grinding, bags                                 | .32 : .34<br>.10 : .12                         | Henna Leaves, bales   | .16 : .17                            | Powdered, bals.   | .09% : .10               |
| Ela Bark, select, 5 lb bundles cases...<br>Grinding, bags                                 | .32 : .34<br>.10 : .12                         | Henna Leaves, bales   | .16 : .17                            | Selected, 2 & 5 lb bundles  | .16 : .20                |
| Ela Bark, select, 5 lb bundles cases...<br>Grinding, bags                                 | .32 : .34<br>.10 : .12                         | Honey, Calif., 120 lb cases   | .11% : .12                           | Cuttings, 125 lb bags   | .07 : .07%               |
| Ela Bark, select, 5 lb bundles cases...<br>Grinding, bags                                 | .32 : .34<br>.10 : .12                         | Hops, N. Y. prime bales   | .23 : .25                            | Life Everlasting Herbs, bales...<br>Lime Juice, clarified bals. gal | .05 : .06<br>.50 : .60   |
| Ela Bark, select, 5 lb bundles cases...<br>Grinding, bags                                 | .32 : .34<br>.10 : .12                         | Pacific Coast prime bales   | .20 : .23                            | Linden Flowers, with leaves, bales                                  | .14 : .16                |
| Ela Bark, select, 5 lb bundles cases...<br>Grinding, bags                                 | .32 : .34<br>.10 : .12                         | Horehound Herb, bales   | .10 : .11                            | Without Leaves, bales   | .30 : .32                |
| Ela Bark, select, 5 lb bundles cases...<br>Grinding, bags                                 | .32 : .34<br>.10 : .12                         | Horse-tail Rush, bags   | .16 : .18                            | Liverwort Leaves, bales   | .20 : .22                |
| Ela Bark, select, 5 lb bundles cases...<br>Grinding, bags                                 | .32 : .34<br>.10 : .12                         | India Gum, see Karaya   | .12% : .13                           | Lobelia Herb, bales   | .22 : .24                |
| Fennel Seed, French, bags...<br>German, bags  | .16 : .17<br>.18 : .19                         | INSECT FLOWERS, open whole<br>bales   | .16 : .17                            | Lobelia Seed, bags  | .62 : .65                |
| Fennel Seed, French, bags...<br>German, bags  | .16 : .17<br>.18 : .19                         | Closed whole, bales   | .16 : .17                            | Lovage Root, Imported, bags   | .20 : .22                |
| Fennel Seed, French, bags...<br>German, bags  | .16 : .17<br>.18 : .19                         | Powdered, 200 lb bals.  | .16 : .17                            | Lupulin, boxes  | .140 : 1.50              |
| Fennel Seed, French, bags...<br>German, bags  | .16 : .17<br>.18 : .19                         | Flowers and stems, 50 p. e.   | .16 : .17                            | Domestic  | .130 : 1.40              |
| Fennel Seed, French, bags...<br>German, bags  | .16 : .17<br>.18 : .19                         | 200 lb bals.  | .16 : .17                            | Lycopodium, 88 lb cs.   | .37 : .39                |
| Fennel Seed, French, bags...<br>German, bags  | .16 : .17<br>.18 : .19                         | Ipecac Root, Cartagenas, bags   | .25 : .28                            | MACE, Siam, No. 1 cases   | .44 : .45                |
| Fennel Seed, French, bags...<br>German, bags  | .16 : .17<br>.18 : .19                         | Powdered, 220 lb bals. boxes  | .25 : .28                            | Banda, No. 1 cases  | .50 : .53                |
| Fennel Seed, French, bags...<br>German, bags  | .16 : .17<br>.18 : .19                         | Black, bals.  | .26 : .27                            | Batavia, cases  | .38 : .39                |
| Fennel Seed, French, bags...<br>German, bags  | .16 : .17<br>.18 : .19                         | Rio Whole, bags   | .16 : .17                            | Malva Flowers, blue bales   | .27 : .30                |
| Fennel Seed, French, bags...<br>German, bags  | .16 : .17<br>.18 : .19                         | Closed whole, 200 lb bals. boxes  | .16 : .17                            | Black, bales  | .65 : .75                |
| Fennel Seed, French, bags...<br>German, bags  | .16 : .17<br>.18 : .19                         | Russian (Beluga) bxs. ctms.   | .65 : .70                            | Manna, large flake cases  | .39 : .41                |
| Fennel Seed, French, bags...<br>German, bags  | .16 : .17<br>.18 : .19                         | Flowers, 130 lb cs.   | .65 : .70                            | Small flake, cases  | .39 : .41                |
| Fennel Seed, French, bags...<br>German, bags  | .16 : .17<br>.18 : .19                         | Flowers, 130 lb cs.   | .65 : .70                            | Sorts, cases  | .27 : .30                |
| Fennel Seed, French, bags...<br>German, bags  | .16 : .17<br>.18 : .19                         | JABORANDI LEAVES, bales   | .16 : .18                            | Mandrake Root, bags   | .21 : .22                |
| Fennel Seed, French, bags...<br>German, bags  | .16 : .17<br>.18 : .19                         | Jalap Root, whole, 150 lb bags  | .33 : .35                            | Mastic Gum, 120 lb cases  | .65 : .70                |
| Fennel Seed, French, bags...<br>German, bags  | .16 : .17<br>.18 : .19                         | Powdered, U.S.P., 250 lb bals.  | .38 : .40                            | Mesereon Bark, bags   | .11 : .12                |
| Fennel Seed, French, bags...<br>German, bags  | .16 : .17<br>.18 : .19                         | Japan Wax, 224 lb cases   | .16 : .18                            | Matioe Bark, bales  | .20 : .22                |
| Fennel Seed, French, bags...<br>German, bags  | .16 : .17<br>.18 : .19                         | Job's Tears, white bags   | .25 : .30                            | Marjoram Leaves, German bales                                       | .17% : .18               |
| Fennel Seed, French, bags...<br>German, bags  | .16 : .17<br>.18 : .19                         | Juniper Berries, 125 lb bags  | .08 : .09                            | French, bales   | .13% : .14%              |
| Ginseng Root, cultivated, bags...<br>Northwestern Wild, bags...<br>Southern Wild, bags... | 8.00 : 10.00<br>14.00 : 15.00<br>10.00 : 12.00 | KAMALA, boxes   | 1.35 : 1.45                          | Millet, Seed, dom. yellow bags                                      | .03% : .05               |
| Golden Seal Root, bags...<br>Powdered, boxes  | 3.45 : 3.55<br>3.70 : 3.75                     | Karaya Gum, powdered bals.  | .15 : .20                            | Montan, Wax, crude bags   | .04 : .04%               |
| Grains of Paradise, bags...<br>Cochin, ABC & lemon, bags                                  | .12 : .14<br>.18 : .18%                        | Kava Kava Root, bags  | .16 : .17                            | Bleached  | ...                      |
| Grains of Paradise, bags...<br>Cochin, ABC & lemon, bags                                  | .12 : .14<br>.18 : .18%                        | Kino Gum, black cases   | .50 : .55                            | Moss, Iceland bales   | .08 : .09                |
| Grains of Paradise, bags...<br>Cochin, ABC & lemon, bags                                  | .12 : .14<br>.18 : .18%                        | Kola Nuts, 150 lb bags  | .05 : .06                            | Irish, bleached bales   | .10 : .12                |
| Grains of Paradise, bags...<br>Cochin, ABC & lemon, bags                                  | .12 : .14<br>.18 : .18%                        | Kousso Flowers, bags  | ...                                  | Mullein Flowers, tins   | 1.25 : 1.50              |

J. MERO & BOYVEAU  
Grasse, France

Essential Oils—Natural Flower Oils  
Oil Almond Bitter, S. P. A.  
Oil Geranium, Pure African  
Oil Lavender, Flowers  
Oil Peppermint  
Oil Menthe Bocca

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CARBON TETRACHLORIDECompound  
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## Crude Drugs

|   |            |           |
|---|------------|-----------|
| Snake Root, Canada natural bags.                    | lb .43     | : .45     |
| Stripped, bags                                      | lb ...     | : .55     |
| SOAP BARK, whole, 150-200 lb bales                  | lb .07%    | : .09     |
| Cut, 125-175 lb bags                                | lb .09     | : .09 1/2 |
| Crushed, 200 lb bals.                               | lb .11 1/2 | : .12 1/2 |
| Powdered, 200 lb bals.                              | lb .12     | : .14     |
| Spearmint Leaves, American bales.                   | lb .23     | : .34     |
| Spermaceti, blocks                                  | lb .39     | : .41     |
| Spirkenard Root, bags                               | lb .28     | : .30     |
| Spruce Gum, boxes                                   | lb 1.00    | : 1.50    |
| Squaw 7ine, bales                                   | lb ...     | : .17     |
| Stavesacre Seed, bags                               | lb .28     | : .29     |
| Stone Root, bags                                    | lb .09     | : .10     |
| Storax, liquid artif.                               | lb .70     | : .75     |
| Gen. USP  | lb .90     | : 1.00    |
| St. Ignatius Beans, bags                            | lb .22     | : .23     |
| St. John's Bread, bags                              | lb .04     | : .06     |
| Stramonium Leaves, bales                            | lb .08     | : .09     |
| Stramonium Seed, bags                               | lb .13     | : .13     |
| Strophanthus Seed, Hispidae                         | lb .35     | : .40     |
| Kombé, bags   | lb .30     | : .55     |
| Sunflower Seed, domestic bags                       | lb .07     | : .07 1/2 |
| South American, bags                                | lb .06     | : .07 1/2 |
| TAGALDER BARK, bags                                 | lb ...     | : .05     |
| Tamarinds, bals.                                    | lb ...     | : .06 1/2 |
| Kegs  | per kg     | : 3.50    |
| Tammy Herb, bales                                   | lb .18     | : .20     |
| Tar, Barbados, 50 gal. bals.                        | gal 1.60   | : 1.75    |
| Thuy Gum, 280 lb bals.                              | lb ...     | : .05 1/2 |
| Thyme, Spanish bales                                | lb .07     | : .07 1/2 |
| French, bales                                       | lb .08 1/2 | : .09     |
| Tilia, See Linden                                   |            |           |
| Tolu Balsam, see Balsams                            |            |           |
| Tongo Bark, bags                                    | lb .30     | : .31     |
| Tonka Beans, Anguatura, cases                       | lb 2.25    | : 2.35    |
| Para, cases   | lb .75     | : .80     |
| Surinam, cases                                      | lb .50     | : .85     |
| Tragacanth Gum, No. 1, ribbon 200 lb cs.            | lb 1.40    | : 1.45    |
| No. 2 to No. 6, cases                               | lb 1.00    | : 1.40    |
| Powdered, 50 lb boxes                               | lb .95     | : 1.00    |
| Turkish, cases                                      | lb .75     | : .90     |
| Turneric Root, Madras bags                          | lb .10 1/2 | : .11     |
| Aleppy, bags  | lb .09     | : .09 1/2 |
| China, bags   | lb .08     | : .08 1/2 |
| Turpentine, Venice, true 80 lb cs.                  | lb .17     | : .20     |
| Artificial, 80 lb cases                             | lb .14     | : .15     |
| Spirits, see Naval Stores                           |            |           |
| UNICORN ROOT, false, see Helonias True, see Aletris |            |           |
| Uva Ursi Leaves, bales                              | lb .07     | : .07 1/2 |
| VALERIAN ROOT, Belgian bags                         | lb .10     | : .10 1/2 |
| Vanilla Beans Mex. whole cases                      | lb 9.00    | : 10.00   |
| Cuts, cases   | lb 5.60    | : 6.00    |
| Bourbon, cases                                      | lb 4.85    | : 5.25    |
| South American, cases                               | lb 6.00    | : 6.50    |
| Tahiti, yellow label cases                          | lb ...     | : ...     |
| Green Label, cases                                  | lb ...     | : ...     |
| Violet Flowers, bags                                | lb .65     | : .70     |
| WAHOO BARK, of root bags                            | lb 1.00    | : 1.05    |
| Of Tree, bags                                       | lb .46     | : .48     |
| White Pine Bark, roosed, bags                       | lb .07     | : .08     |
| White Poplar Bark, bags                             | lb .04     | : .05     |
| Wild Cherry Bark, thin green Roosed, bales          | lb .15     | : .18     |
| Thick Roosed, bales                                 | lb .09     | : .10     |
| Thin Natural, bales                                 | lb .13     | : .15     |
| Thick Natural, bales                                | lb .07     | : .08     |
| Willow, bark bags                                   | lb ...     | : .06     |
| White, bags   | lb ...     | : .15     |
| Witch Hazel Bark, bags                              | lb ...     | : .07     |
| Witch Hazel Leaves, bags                            | lb ...     | : .09     |
| Worm Seed, American bags                            | lb .09     | : .10     |
| Levant bags   | lb ...     | : ...     |
| Wormwood Herb, imported bals.                       | lb ...     | : .10     |
| Yucca Gum, red                                      | lb .04     | : .04 1/2 |
| Ground  | lb .05 1/2 | : .06 1/2 |
| YELLOW DOCK ROOT, bags                              | lb .12     | : .14     |
| Yellow Parilla Root, bags                           | lb .16     | : .17     |
| Yerba Santa, bags                                   | lb .10     | : .11     |
| Zedoary Root, bags                                  | lb .08     | : .10     |

## Essential Oils

|   |            |           |
|---|------------|-----------|
| Almond Bitter USP 5 lb bats             | lb 3.25    | : 3.75    |
| Bitter ft PA 5 lb bats                  | lb 3.50    | : 3.75    |
| Artificial (See Benzaldehyde—Chemicals) |            |           |
| Sweet, 56 lb cans                       | lb .33     | : .34     |
| Peach Kernel, 55 lb tins                | lb .24     | : .25     |
| Apricot, see Peach Kernel               |            |           |
| Amber, crude 25 lb tins                 | lb .70     | : .75     |
| Rectified, 25 lb tins                   | lb .90     | : 1.00    |
| Angelica Root, 1 lb bot.                | lb 38.00   | : 39.00   |
| Seed, 1 lb bot.                         | lb 36.00   | : 38.00   |
| ANISE, Tech., 66 lb case                | lb .40     | : .42     |
| USP 50 lb tins                          | lb .42     | : .45     |
| Bay, 25 lb tins                         | lb 2.50    | : 2.60    |
| Bergamot, 25 lb coppers                 | lb 2.75    | : 2.90    |
| Artificial, 25 lb cans                  | lb 2.00    | : 2.25    |
| Birch Tar, rect. 5 lb bot.              | lb 1.10    | : 1.15    |
| Crude, 50 lb tins                       | lb .60     | : .65     |
| Bois de Rose, 25 lb tins                | lb 2.75    | : 3.00    |
| Cade, USP, 25 lb tins                   | lb .35     | : .40     |
| USP, 5 lb bot.                          | lb .45     | : .50     |
| Cajuput, native, 50 lb tins             | lb .80     | : .85     |
| Calamus, 5 lb bot.                      | lb 2.25    | : 2.75    |
| Camphor, heavy, 1000 lb drums           | lb .12 1/2 | : .13 1/2 |
| Japanese, white, 72 lb cases            | lb .18 1/2 | : .15     |
| White, 1000 lb drums                    | lb .13     | : .15     |
| Cananga, native 25 lb tins              | lb 2.25    | : 2.50    |
| Rectified, 25 lb tins                   | lb 2.75    | : 3.00    |
| Caraway, USP                            | lb 8.25    | : 8.50    |
| Cardamom, USP, 1 lb bot.                | lb 30.00   | : 33.00   |
| Carol, 5 lb bot.                        | lb 16.00   | : 18.00   |
| CASSIA, 75-80 p.c. 66 lb cases          | lb 2.35    | : 2.45    |
| Redistilled, USP, 50 lb cans            | lb 2.85    | : 2.95    |
| Cedar Leaf, 50 lb tins                  | lb 1.05    | : 1.10    |
| Cedar Wood, light 1000 lb drums         | lb .26     | : .28     |
| Celery, 1 lb bot.                       | lb 8.50    | : 9.00    |
| Cinnamon, Ceylon, 1 lb bot.             | lb 11.00   | : 12.50   |
| Leaf, 5 lb bot.                         | lb ...     | : 2.00    |
| CITRONELLA, Ceylon, 1000 lb drs.        | lb 1.00    | : 1.05    |
| 50 lb tins                              | lb 1.02    | : 1.10    |
| Java, 400 lb drums                      | lb 1.10    | : 1.15    |
| 50 lb tins                              | lb 1.12    | : 1.20    |
| Cloves, USP, 50 lb cans                 | lb 2.40    | : 2.50    |
| 6 lb bot.                               | lb 2.50    | : 2.60    |

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CHICAGO OFFICE: 150 W. Austin Avenue, Chicago, Ill.

## Essential Oils

| Copaiba, USP, 50 lb tins          |    | lb         | .35     | : .40                                | Pimento, 25 lb tins    |       | lb      | 2.00                                | : 2.10                      | Aromatic Chemicals |  |
|-----------------------------------|----|------------|---------|--------------------------------------|------------------------|-------|---------|-------------------------------------|-----------------------------|--------------------|--|
| Coriander, USP, 1 lb bot.         | lb | 17.00      | : 17.50 | Pinus Sylvestris, 25 lb tins         |                        | lb    | ...     | : 1.75                              | NATURAL DERIVATIVES         |                    |  |
| Croton, USP, 25 lb tins           | lb | 1.00       | : 1.10  | Pumilio, USP, 25 lb tins             |                        | lb    | ...     | : 2.75                              | Anethol, 2 lb bot.          |                    |  |
| Cubes, USP, 5 lb bot.             | lb | 5.25       | : 5.50  | Rose, Fr., S, 16 & 32 oz. pigs, ea   |                        | lb    | ...     | : 9.00                              | Benzene, 1 lb bot.          |                    |  |
| Cumin, 1 lb bot.                  | lb | 14.00      | : 15.00 | Bulg., S, 16 & 32 oz. pigs, ea       |                        | lb    | 8.00    | : 9.00                              | CITRONELLOL, 1 lb bot.      |                    |  |
| Dill, 1 lb bot.                   | lb | 4.25       | : 5.00  | Artificial, 1 lb bot.                |                        | lb    | 2.00    | : 3.00                              | CITRAL, 25 lb cans          |                    |  |
| Erigeron, 20 lb tins              | lb | .75        | : .85   | Rosemary, USP, 27 1/2 lb tins        |                        | lb    | .40     | : .42                               | EUCALYPTOL, USP, 25 lb cans |                    |  |
| EUCALYPTUS, Austr. USP            |    | 50 lb cans | 72 1/2  | : .75                                | 1000 lb drums          | ...   | ...     | : .37 1/2                           | Benzene, 1 lb bot.          |                    |  |
| 500 lb drums                      |    | lb         | ...     | : .70                                | Tech., 27 1/2 lb tins  | ...   | .35     | : .40                               | Eugenol, 25 lb cans         |                    |  |
| Fennel USP, 25 lb tins            | lb | 1.05       | : 1.10  | Rue, 1 lb bot.                       | ...                    | ...   | : 4.25  | CITRONELLOL, 1 lb bot.              | ...                         |                    |  |
| Geranium, Algerian, 25 lb tins    | lb | 8.00       | : 8.50  | Sandalwood, L. Ind. USP, 76 lb cases | ...                    | 7.15  | : 7.25  | Benzene, 2 lb bot.                  | ...                         |                    |  |
| Bourbon, 25 lb tins               | lb | 7.50       | : 8.00  | W. Indian, (Amrys) 25 lb tins        | lb                     | 3.00  | : 3.25  | CITROENOL, 25 lb cans               | ...                         |                    |  |
| Turkish, 25 lb tins               | lb | 4.50       | : 4.75  | Sassafras, USP, 50 lb cans           | lb                     | 1.90  | : 2.05  | Imported, 5 lb bot.                 | ...                         |                    |  |
| Ginger, 1 lb bot.                 | lb | 5.75       | : 6.00  | Artificial, 1000 lb drs., 60 lb cans | lb                     | .38   | : .42   | Extra                               | ...                         |                    |  |
| Gingergrass, 25 lb tins           | lb | 2.75       | : 3.00  | Savin, 50 lb tins                    | ...                    | 2.85  | : 3.00  | Iso-Eugenol, 1 lb bot.              | ...                         |                    |  |
| Hemlock, 50 lb cans               | lb | 1.10       | : 1.20  | Spearmint, USP, 50 lb cases          | lb                     | 2.50  | : 2.60  | Imported                            | ...                         |                    |  |
| Juniper Berries, USP, 25 lb tins  | lb | 1.25       | : 1.35  | Spruce, 50 lb tins                   | ...                    | 1.10  | : 1.20  | Menthyl, 60 lb cases                | ...                         |                    |  |
| Wood, 50 lb tins                  | lb | .60        | : .70   | Tansy Amer., 20 lb tins              | lb                     | 4.25  | : 4.35  | Linalool, 5 lb cans                 | ...                         |                    |  |
| Lavender, USP, 28 lb tins         | lb | 4.50       | : 6.25  | Tar, 50 lb. bbls.                    | gal                    | .25   | : .28   | Less cases, 5 lb cans               | ...                         |                    |  |
| Spike, Spanish, 50 lb cans        | lb | .65        | : .70   | Refined, USP, 25 lb tins             | lb                     | ...   | : .28   | Rhodinol, 1 lb bot.                 | ...                         |                    |  |
| LEMON, Ital. USP, 25 lb tins      | lb | .75        | : .80   | Thyme, red, USP, 25 lb tins          | lb                     | 1.05  | : 1.10  | SAFROL, 60 lb cans                  | ...                         |                    |  |
| American, USP, 25 lb tins         |    | lb         | ...     | : .87 1/2                            | White, USP, 25 lb tins | lb    | 1.15    | : 1.20                              | Thymol, USP, 25 lb tins     | ...                |  |
| Lemongrass, native, 50 lb cans    | lb | .80        | : .85   | Tech., 110 lb drums                  | ...                    | .85   | : .90   | SYNTHETIC AROMATICS                 | ...                         |                    |  |
| Limes, excess 25 lb tins          | lb | 1.50       | : 1.70  | Velvett, Bourbon, 1 lb bot.          | lb                     | 7.25  | : 7.50  | Acetaldehyde, 50% pure, 5 lb bot.   | lb                          |                    |  |
| Distilled, 25 lb tins             | lb | .90        | : 1.00  | Java, 1 lb bot.                      | lb                     | 22.00 | : 24.00 | Acetophenone, CP, 1 lb bot.         | lb                          |                    |  |
| Linaloe, Mex. 80 lb cases         | lb | 2.40       | : 2.50  | Wine, heavy 1 lb bot.                | lb                     | ...   | : 2.75  | Aldehyde, C-8 (Octyl), 1 lb bot.    | lb                          |                    |  |
| Mace, distilled, 50 lb tins       | lb | .95        | : 1.00  | WINTERGREEN                          | ...                    | ...   | : 4.75  | Aldehyde, C-9 (Nonyl), 1 lb bot.    | lb                          |                    |  |
| Mirbane, ref., see Ar. Chemicals  | lb | ...        | ...     | Sweet bch., 25 lb tins               | lb                     | 2.00  | : 3.00  | Aldehyde, C-10 (Decyl), 1 lb bot.   | lb                          |                    |  |
| Mustard, USP, 1 lb bot.           | lb | ...        | ...     | Gaultheria, true, 25 lb tins         | lb                     | 4.00  | : 7.00  | Aldehyde, C-12 (Dodecyl), 1 lb bot. | lb                          |                    |  |
| Artif., USP, 5 lb bot.            | lb | 2.90       | : 3.05  | Synthetic, USP, 50 lb cases          | lb                     | ...   | : .47   | Aldehyde, C-14, 1 lb bot.           | lb                          |                    |  |
| Neroli, Bigarade, 1/4 & 1 lb bot. | lb | 40.00      | : 60.00 | Wormseed Bals., USP, 25 lb tins      | lb                     | 5.50  | : 6.00  | Aldehyde, C-16, 1 lb bot.           | lb                          |                    |  |
| Petale, 1 lb bot.                 | lb | 65.00      | : 80.00 | Wormwood dom., 25 lb tins            | lb                     | 4.00  | : 4.25  | Aldehyde, C-18, 1 lb bot.           | lb                          |                    |  |
| Artificial, 1 lb bot.             | lb | 10.00      | : 25.00 | Ylang Ylang, Bourbon, 10 lb tins     | lb                     | ...   | ...     | Aldehyde, C-16, 1 lb bot.           | lb                          |                    |  |
| Nutmeg, USP, 25 lb tins           | lb | 1.00       | : 1.10  | No. 1                                | lb                     | 7.00  | : 9.00  | Aldehyde, C-18, 1 lb bot.           | lb                          |                    |  |
| Orange, bitter, 25 lb tins        | lb | 2.65       | : 2.75  | No. 2                                | lb                     | 5.00  | : 6.00  | Amyl Acetate, pure, 5 gal. cans     | gal                         |                    |  |
| Sweet, W. Ind., 25 lb tins        | lb | 2.20       | : 2.30  | Manila, 1 lb bot.                    | lb                     | 30.00 | : 40.00 | Amyl Butyrate, 1 lb bot.            | lb                          |                    |  |
| Italian, 25 lb cop.               | lb | 3.15       | : 3.35  | Artificial, 1 lb bot.                | lb                     | 10.00 | : 12.00 | Amyl Formate, 1 lb bot.             | lb                          |                    |  |
| American, 25 lb tins              | lb | 3.00       | : 3.25  | Maleforn, See Aspidium               | ...                    | ...   | ...     | Amyl Phenyl Acetate, 1 lb bot.      | lb                          |                    |  |
| Origanum, 50 lb cans              | lb | .30        | : .35   | Oleoresins                           | ...                    | ...   | 8.50    | : 9.00                              | AMYL SALICYLATE, dom.       | lb                 |  |
| Parley, 1 lb bot.                 | lb | 3.50       | : 4.00  | Aspidium, USP, 1 lb bot.             | lb                     | 2.75  | : 3.00  | cbs.                                | ...                         |                    |  |
| Patchouli, 5 lb bot.              | lb | 7.75       | : 8.00  | Cascip, USP, 5 lb bot.               | lb                     | 2.50  | : 2.75  | Imported                            | ...                         |                    |  |
| Pennyroyal, dom. 25 lb tins       | lb | 1.95       | : 2.25  | Ginger, 5 lb bot.                    | ...                    | 3.00  | : 3.10  | Amyl Valerate, 5 lb bot.            | lb                          |                    |  |
| Imported, 25 lb tins              | lb | 1.90       | : 2.00  | Cubeb, USP, 1 lb bot.                | lb                     | 4.75  | : 5.00  | Anisic Aldehyde, 1 lb bot.          | lb                          |                    |  |
| PEPPERMINT, nat. 60 lb cases      | lb | 3.15       | : 3.25  | Malefern, See Aspidium               | ...                    | ...   | ...     | BENZALDEHYDE, USP, 40 lb cbs        | lb                          |                    |  |
| Redist., USP, 60 lb cases         | lb | 3.35       | : 3.45  | Orris, 1 lb bot.                     | ...                    | ...   | ...     | FFC, 40 lb cbs                      | lb                          |                    |  |
| Petit Grain, S. Am. 25 lb tins    | lb | 1.75       | : 1.85  | Pepper, black, USP, 1 lb bot.        | lb                     | 3.50  | : 4.00  | Benzene Ether, See Ethyl Benzoate   | lb                          |                    |  |
| French, 1 lb bot.                 | lb | 7.00       | : 8.00  | Vanilla, 1 lb bot.                   | lb                     | 9.50  | : 10.00 | Benzophenone, 1 lb bot.             | lb                          |                    |  |
| Italian, 25 lb tins               | lb | 2.25       | : 2.35  | ...                                  | ...                    | ...   | ...     | Benzyl Acetate, 100 lb cbs.         | lb                          |                    |  |

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Aromatic Chemicals  
for  
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FLAVORING  
EXTRACTS**

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## Aromatic Chemicals

|   |          |         |  |           |         |   |           |         |
|---|----------|---------|--|-----------|---------|---|-----------|---------|
| Benzyl Alcohol, 5 lb bot.....               | lb 1.60  | : 1.70  | Iso-Butyl Benzoate, 5 lb bot.....      | lb 4.75   | : 5.00  | Skatol, 1 oz. bot.....                    | oz 9.25   | : 10.00 |
| <b>BENZYL BENZOATE</b> , 5 lb bot.....      | lb 1.60  | : 1.75  | Iso-Safrol, 1 lb bot. imported.....    | lb 5.25   | : 5.50  | <b>TERPINEOL</b> , CP, 1000 lb drums. lb  | .50       | : .51   |
| Medicinal FFC.....                          | lb 1.75  | : 2.00  | Domestic, 5 lb bot.....                | lb 4.00   | : 4.25  | Cans 50 lb.....                           | lb .52    | : .54   |
| Benzyl Butyrate, C.P., 1 lb bot.....        | lb 5.50  | : 6.00  | Imported, 25 lb cans.....              | lb .95    | : 1.20  |   |           |         |
| Benzyl Cinnamate, 1 lb bot.....             | lb 10.00 | : 10.50 | Linalyl Acetate, 1 lb bot. Dom. lb     | 7.00      | : 10.00 | Terpinyl Acetate, 25 lb cans....          | lb 1.65   | : 1.85  |
| Benzyl Formate, 1 lb bot.....               | lb 3.00  | : 3.25  | Imp. 1 lb bot.....                     | lb 8.50   | : 10.00 | <b>VANILLIN</b> , USP, 400 oz cans. oz    | .50       | : .50%  |
| Benzyl Propionate, 1 lb bot.....            | lb 5.00  | : 5.25  | Linalyl Benzoate, 1 lb bot.....        | lb 13.00  | : 14.00 | Cans, 16 oz., 80 oz.....                  | oz .50%   | : .51%  |
| Bornyl Acetate, 1 lb bot.....               | lb 2.75  | : 3.25  | Linalyl Formate, 5 lb bot.....         | lb 10.00  | : 12.00 |   |           |         |
| Bromostyrol, 25 lb kegs.....                | lb 4.00  | : 4.25  | <b>METHYL ANTHRANILATE</b> dom.,       |           |         |   |           |         |
| Butyric Ether, See Ethyl Butyrate.....      |          |         | 1 lb bot.....                          | lb 3.25   | : 3.75  | <b>PERFUMERS' SUNDRIES</b>                |           |         |
| Cinnamic Acid, 5 lb cans.....               | lb 3.00  | : 3.25  | Imported.....                          | lb 4.50   | : 5.00  | Almond Meal, 25 lb cans.....              | lb .28    | : .30   |
| Cinnamyl Alcohol, liquid 1 lb bot. ....     | lb 10.00 | : 14.00 | Domestic, 5 lb bot.....                | lb 1.75   | : 2.00  | Ambergris, black, bxs.....                | oz .80    |         |
| Crystallizable.....                         | lb 12.00 | : 16.00 | Methyl Cinnamate, 1 lb bot.....        | lb 3.75   | : 4.00  | Ambergris, gray, bxs.....                 | oz .28.00 |         |
| Cinnamyl Aldehyde, 1 lb bot.....            | lb 3.20  | : 3.50  | Methyl Heptone, 1 lb bot.....          | lb 5.00   | : 5.25  | Balsam Copalina, Para, 80 lb cases. lb    | .23       | : .24   |
| <b>CITRONELLOL</b> , 1 lb bot.....          | lb 8.00  | : 11.00 | Methyl Heptine Carbonate, 1 lb bot. lb | 50.00     | : 70.00 | South American, 80 lb cases. lb           | .28       | : .29   |
| Citronellyl Acetate, 1 lb bot.....          | lb 12.00 | : 13.00 | Methyl Paracresol, 1 lb bot.....       | lb 5.00   | : 9.00  | Balsam Peru, 120 lb cases. lb             | 1.75      | : 1.80  |
| <b>COUMARIN</b> , 25 lb cans.....           | lb 4.50  | : 4.65  | Methyl Phenylacetate, 1 lb bot. lb     | 6.25      | : 6.50  | Balsam Tolu, 90 lb cases. lb              | 2.25      | : 2.50  |
| <b>DIETHYL PHTHALATE</b> , 25 lb cans. .... | lb .50   | : .60   | Methyl Phenylacetate, 5 lb bot. lb     | 6.00      | : 6.50  | Benzoin, Gum, Siam, bxs.....              | lb 1.15   | : 1.20  |
| 1000 lb drs. ....                           | lb .45   | : .50   | <b>METHYL SALICYLATE</b> , USP 500 lb  |           |         | Castoreum, 1 lb bot. ....                 | lb 4.00   | : 4.50  |
| Diphenyloride, 25 lb tins.....              | lb .85   | : .90   | drums.....                             | lb ...    | : .45   | Chalk, precip. light, 175 lb bbls. lb     | lb .04%   | : .05   |
| Ethyl Acetate, pure, 5 lb bot.....          | lb .45   | : .50   | 50 lb case.....                        | lb .43    | : .47   | Cherry Laurel Water, 5 gal cans. gal      | 1.15      | : 1.25  |
| Ethyl Benzoate, 5 lb bot.....               | lb 1.85  | : 2.00  | Second Hand.....                       | lb .43    | : .44   | Clvet Abyssin, horns.....                 | oz 2.75   | : 3.75  |
| Ethyl Butyrate, 5 lb bot.....               | lb 2.00  | : 2.25  | Musk Ambrette, 1 lb cans.....          | lb 12 1/2 | : 14    | Labdanum, 5 lb bot. ....                  | lb ...    | : 8.00  |
| Ethyl Caproate, 1 lb bot.....               | lb 3.25  | : 3.50  | Musk Ketone, 1 lb cans.....            | lb 14.00  | : 15.00 | Landolin hydrus, 350 lb bbls....          | lb .21    | : .22   |
| Ethyl Cinnamate, 1 lb bot.....              | lb 3.75  | : 4.00  | Musk Xylene, 5 lb cans.....            | lb 3.50   | : 3.75  | Anhydrous, 350 lb bbls....                | lb .23    | : .24   |
| Ethyl Formate, 5 lb bot.....                | lb 2.00  | : 2.10  | Nerolin, 1 lb cans.....                | lb 1.85   | : 2.00  | Musk pods, Cabardine, tins.....           | oz 16.00  | : 17.00 |
| Ethyl-methyl Paracresol, 1 lb bot. lb       | 3.25     | : 3.50  | Genanthic Ether, 100%, 1 lb bot. lb    | 2.25      | : 3.00  | Tonquin, tins.....                        | oz 22.00  | : 25.00 |
| Ethyl Propionate, 1 lb bot. ....            | lb 2.25  | : 2.50  | Genanthic Ether, 5 lb bot. ....        | lb 1.25   | : 1.50  | Grains, Cabardine, tins.....              | oz 25.00  | : 26.00 |
| Ethyl Valerate, 5 lb bot.....               | lb 4.50  | : 4.75  | Phenylacetalddehyde, Dom.,             |           |         | Tonquin, tins.....                        | oz 35.00  | : 38.00 |
| Ethyl Salicylate, 5 lb bot.....             | lb 3.25  | : 3.50  | 1 lb bot.....                          | lb 9.50   | : 10.50 | <b>Synthetic</b> , See Aromatic Chemicals |           |         |
| Formic Ether, See Ethyl Formate.....        |          |         | Imported.....                          | lb 7.50   | : 11.00 | <b>Orris Et. Flor.</b> , powd. bbls.....  | lb .09    | : .11   |
| Geranyl Acetate, 1 lb bot.....              | lb 4.25  | : 4.75  | Phenylacetic Acid, 1 lb bot. ....      | lb 3.00   | : 3.25  | Verona, bbls.....                         | lb .08    | : .09   |
| Geranyl Butyrate, 1 lb bot.....             | lb 13.00 | : 13.50 | Phenyl Diacetate, 1 oz. bot. ....      | oz 3.25   | : 3.50  | Petrolatum, snow white, 350 lb bbls. lb   | .12 1/2   | : .13   |
| Geranyl Formate, 1 lb bot.....              | lb 12.00 | : 12.50 | Phenyl propyl Alcohol, 1 lb bot. lb    | 13.00     | : 14.00 | Light Amber, 350 lb bbls....              | lb .04%   | : .05   |
| Hydroxycitronellal, 1 lb bot. ....          | lb 11.00 | : 12.00 | <b>PHENYLETHYLALCOHOL</b> dom.,        |           |         | Rice Starch, 140 lb bags.....             | lb .09    | : .10   |
| Heliotropin, dom., 10 lb bot. ....          | lb 1.85  | : 2.00  | 1 lb bot.....                          | lb 8.00   | : 10.00 | Rose Water, 5 gal cans. gal               | .90       | : 1.10  |
| Imported.....                               | lb 2.25  | : 2.50  | Imported.....                          | lb 7.75   | : 9.75  | Sandalwood chips, powd. bags. ....        | lb .30    | : .35   |
| Ional, CP, 1 oz. bot. ....                  | lb 6.00  | : 6.50  | Phenylethyl Butyrate, 1 lb bot. ....   | lb 25.00  | : 26.00 | Saponin, 5 lb tins.....                   | lb 1.25   | : 1.50  |
| Ionone, 1 lb bot. ....                      | lb 5.00  | : 9.00  | Phenylethyl Formate, 1 lb bot. ....    | lb 18.00  | : 19.00 | Tale Italian, 220 lb bags. ....           | ton 42.00 | : 55.00 |
| Alpha.....                                  | lb 10.00 | : 12.00 | Phenylethyl Propionate, 1 lb bot. .... | lb 19.00  | : 20.00 | Tale French, 220 lb bags. ....            | ton 32.00 | : 45.00 |
| Beta.....                                   | lb 9.00  | : 11.00 | Phenylethyl Valerate, 1 lb bot. ....   | lb 22.50  | : 26.00 | Tale, domestic ref., 100 lb bags. ....    | ton 20.00 | : 30.00 |
| Methyl.....                                 | lb 12.50 | : 15.00 | Phenylpropylalcohol, 1 lb bot. ....    | lb 15.00  | : 16.00 |   |           |         |

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## Imports of Chemicals, Dyestuffs, Drugs, etc.

### Imports at New York Nov. 17 to Nov. 24

**ACIDS**—Formic, 140 bxs., R. W. Greeff & Co., Rotterdam; Oxalic, 48 cks., Roessler & Hasslacher Chem. Co., Christiania  
**AGAR AGAR**—5 lbs., Far East Import Co., Kobe  
**ANTIMONY**—770 bgs., W. R. Grace & Co., Antofagasta; Oxide, 250 cs., Bk. of Amer., Shanghai; Regulus, 250 cs., Bk. of Amer., Shanghai  
**ARGOLIS**—112 cks., 38 pgs., Tartar Chem. Wks., Naples  
**ARSENIC**—360 bbls., Amer. Smeltg. & Refg. Co., Tampico; Sulfide, 10 kgs., Order, London; White, 400 cs., Guavely & Co., Kobe  
**BALSAM**—3 cs., Amerman & Paterson, Southampton; 14 cs., Dodge & Olcott, La Libertad; 12 cs., G. Lueder & Co., La Libertad; 10 cs., Order, Manaoa  
**BARIUM**—6 cs., 1 bbl., H. Isaacs, Inc., St. Thomas  
**BARKS**—3 bgs., S. B. Penick & Co., Hamburg; 37 bgs., Lehn & Fink, Hamburg; 25 bgs., Order, Trieste; 10 bgs., Order, Macasar; Cascara, 289 bgs., Order, Vancouver, B. C.; Cinchona, 297 bgs., Hinrichs Bramann & Co., Rotterdam  
**BAY RUM**—15 cs., 1 bbl., Order, St. Thomas  
**BLEACHING POWDER**—75 cs., H. Kohnstamm & Co., Liverpool  
**BLOOD**—Dried, 100 bgs., 10 bbls., Farmers Loan & Trust Co., Hamburg  
**BONE BLACK**—2 cks., J. A. McNulty, Liverpool  
**CALCIUM**—Chloride, 320 drs., Philipp Bauer & Co., Hamburg  
**CAMPHOR**—100 cs., A. Ochsse, Hamburg; 200 cs., Order, Shanghai; Brown, 100 drs., Suzuki & Co., Kobe  
**CINCHONINE**—10 cs., R. W. Greeff & Co., Rotterdam  
**CLAY**—629 tons, Moore & Munger, Bristol; 453 tons, Papermakers Imp. Co., Bristol; China, 1 bx., W. R. Grace & Co., Bristol  
**COLORS**—33 cs., M. Grumbacher, Hamburg; 1 cks., Kuttroff Pickhardt & Co., Hamburg; 1 bbl., 1 cse., C. Anstet Leather Co., Hamburg; 4 cks., 2 cs., Franklin Imp. & Exp. Co., Hamburg; 8 cs., Order, London; 3 cks., 2 bbls., Heemsoth Basse & Co., Hamburg; 1 cks., W. J. Byrnes & Co., Liverpool; 5 bbls., L. R. Organic Products Co., Genoa; 3 bbls., Bachmeier & Co., Genoa; 15 cks., Brown Bros. & Co., Southampton; 96 cks., Kuttroff Pickhardt Co., Rotterdam; 36 cks., Ciba Co., Havre; 2 cks., H. A. Metz Co., Rotterdam; 8 kegs, Nat. City Bank, Rotterdam; 8 kegs, B. Bernard, Rotterdam; 7 cs., Amer. Exch. Nat. Bk., Rotterdam; 26 cks., Ciba Co., Havre; 9 cs., Drakenfeld, Havre; 4 cks., Carbic Color & Chem. Co., Havre; 3 cs., Irving Bk., Havre; 32 pgs., Sandoz Chem. Wks., Havre; 5 cs., Richards & Co., Havre; 3 cks., Amer. Exch. Co., Havre; 1 cks., Simon & Elting, London; Coal Tar, 1 cse., Gallagher & Ascher, Trinidad; Distillate, 1 drum, Monsanto Chem. Wks., Liverpool; 139 drs., Order, Liverpool; Preparations, 1 cse., Franklin Imp. & Exp. Co., Hamburg  
**DIVI DIVI**—160 bgs., E. Pavenstedt & Co., Aruna  
**EPSOM SALTS**—5,000 bgs., Superfos Co., Hamburg  
**EXTRACTS**—11 bxs., W. R. Grace & Co., Sanchez; Logwood, 135 bbls., Logwood Mfg. Co., Cape Haitian; 100 cks., Amer. Dyewood Co., Jamaican Ports; Quebracho, 1,957 bgs., Bk. of N. Y. & Trust Co., Buenos Aires; 5,092 bgs., Guaranty Trust Co., Buenos Aires; 6,514 bgs., Order, Buenos Aires; Rennet, 34 bgs., F. Behrend, Copenhagen  
**FULLER'S EARTH**—250 bgs., L. A. Salomon & Bros., Bristol  
**GLAUBER SALT**—200 bgs., Order, Hamburg  
**GLUE**—200 bgs., Nat. Gum & Mica Co., London; 20 bgs., 1 cse., Order, London; 160 bgs., Amer. Exch. Co., Liverpool; 268 bgs., Baring Bros. & Co., Hamburg; 200 bgs., E. Miller, Havre; 25 bgs., Nat. Gum & Mica Co., Havre; 25 bgs., Order, Marseilles; 100 bgs., G. H. Hommel, London; Bone, 300 bgs., J. Dick, Hamburg  
**GLUESTOCK**—80 bgs., Order, Buenos Aires  
**GUAIACOL**—Carbonate, 4 cs., Kachurin Drug Co., Rotterdam  
**GUMS**—50 cks., Order, London; 150 cs., 275 bkt., L. C. Gillespie & Sons, Singapore; 2 cs., C. L. Huisking, Havre; 25 cks., Amer. Exch. Co., Havre; 130 bgs., Order, Marseilles; Chicle, 50 bgs., J. A. Medina & Co., Tampico; Copal, 25 cs., L. C. Gillespie & Sons, Singapore; 142 bgs., H. Dubler, Manila; 220 bkt., S. Winterbourne & Co., Macassar; 47 cs., 332 bkt., France Campbell & Darling, Macassar; 312 bkt., Standard Bk. of So. Africa, Macassar; 141 bkt., Kidder Peabody & Co., Macassar; 216 bkt., W. H. Schall, Macassar; 800 bkt., Order, Macassar; 104 bkt., 5 cs., Order, Taranpan; 353 bkt., Order, Fernate; Damar, 100 cs., 210 bgs., L. C. Gillespie & Sons, Singapore; 192 bgs., 50 cs., Order, Singapore; 200 cs., Order, Padang  
**GUM RESIN SOLUTION**—23 cans, Franklin Imp. & Exp. Co., Hamburg  
**HYOSCYAMINE**—12 bls., F. B. Vandegrift & Co., Hamburg  
**IRON OXIDE**—1 cks., E. M. & F. Waldo, Liverpool; 10 cks., 10 kgs., J. H. Rhodes & Co., Liverpool; 34 cks., R. J. Waddell & Co., Liverpool; 35 cks., J. A. McNulty, Liverpool; 19 cks., L. H. Butcher Co., Liverpool; 4 cks., Order, Liverpool  
**JUICES**—Licorice, 50 cs., Heyliger & Raubitschek, Marseilles; Lime, 40 h'heads, Order, Demerara; 1 bx., Libby McNeil & Libby, Trinidad; 3 cks., Middleton & Co., St.

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**LICORICE**—2 cs., Morana Co., Rotterdam.  
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**MAGNESITE**—Calcinated, 204 cks., H. J. Baker & Bro., Rotterdam; 250 bgs., Speiden Whiting Co., Rotterdam.  
**MAGNESIUM**—Chloride, 711 drs., 3 cks., Irving Bk., Hamburg; 175 drs., Innis Speiden & Co., Hamburg; 721 drs., Order, Hamburg.  
**MYROBALANS**—3,475 bgs., Order, Calcutta.  
**NAPHTHALENE**—216 bgs., Order, Bristol.  
**OILS**—Cocount, 100 cs., Equit. Trust Co., Colombo; 825 tons, Philippine Refg. Co., Manila; Cod, 200 cks., Franklin Agencies, St. Johns; 217 cks., Nat. Oil Products Co., St. Johns; 100 bbls., Order, St. Johns; Cod-liver, 28 bbls., McKesson & Robbins, Christiansia; 50 cs., Schieffelin & Co., Christiansia; 200 bbls., Fourth Atlantic Nat. Bk., Rotterdam; Haarlem, 30 cs., Lehn & Fink, Rotterdam; 15 cs., Esche Chem. Corp., Rotterdam; 10 cs., C. W. Lowell, Rotterdam; Olive, 150 cs., Zucco & Co., Genoa; 100 cs., F. N. Giavi, Inc., Genoa; 110 cs., Sauro Bros., Genoa; 107 cs., Amer. Exp. Co., Palermo; 250 cs., Order, Genoa; 500 cs., F. Romeo & Co., Leghorn; 500 cs., F. Romeo & Co., Genoa; 150 cs., Yohalem & Diamond, Genoa; 350 cs., J. Petrelli & Co., Genoa; 100 cs., D. Martini, Genoa; 235 cs., P. Pastene & Co., Genoa; 250 cs., Moschaldes Bros., Genoa; 275 cs., A. Morici & Co., Genoa; 250 cs., R. Piterno, Genoa; 200 cs., 50 bbls., A. Fiore & Co., Genoa; Peanut, 35 cks., W. Van Doorn Co., Rotterdam; 80 cs., Kwong Tai Chong, Hongkong; Sesame, 115 bbls., J. Grant, Rotterdam; Sperm, 150 bbls., Order, Glasgow; Soda, 15 bbls., R. Babcock & Co., Liverpool; 2 bbls., J. & G. Curtis, Liverpool; Wood, 200 drs., Order, Hongkong; 140 cks., Sino Java Handelsvereniging, Hankow.

**OILS, ESSENTIAL**—5 cks., L. S. Tainter, Hamburg; 1 cse., Products Equipment Co., Liverpool; 40 cs., Order, Messina; 8 cs.,

800 bgs., Anglo So. Amer. Bk., Calcutta; 300 bgs., British Oversea Bk., Calcutta; Polaks Frutal Works, Rotterdam; 5 cs., Coty, Havre; 15 cks., Amer. Exp. Co., Havre; 2 cks., G. Lueders & Co., Algiers; 3 cs., Gallagher & Ascher, Naples; 3 bbls., M. Salvato, Naples; Bay, 2 cs., R. Moellhausen, St. Lucia; 3 cs., Lehn & Fink, St. Thomas; Bergamot, 24 cs., Societe Justin Dupont, Inc., Messina; Cinnamon, 4 drs., Equit. Trust Co., Colombo; Citronella, 19 drs., Bank of America, Colombo; Fusel, 1 cse., Texas Co., Cape Haitian; 3 drs., De Mattia Chem. Co., Rotterdam; 21 drs., Order, Rotterdam; 6 drs., Order, Marseilles; 16 drs., Credite Ital., Genoa; 15 bbls., A. C. Lambard & Sons, Copenhagen; Lemon, 100 cs., Ital. Disc. & Trust Co., Messina; Lime, 7 cs., Park Benziger & Co., St. Lucia; 2 cs., Planters Produce Co., St. Lucia; Orange, 100 cs., Colonial Bk., Jamaican Ports; Sandalwood, 27 cs., Ungerer & Co., Southampton; 24 cs., Order, Southampton.  
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**PLUMBAGO**—208 bbls., H. P. Winter & Co., Colombo; 200 bbls., Nat. City Bk., Colombo.  
**POTASSIUM SALTS**—Alum, 78 bbls., Cooper & Cooper, Hamburg; Bromide, 109 cs., Superfos Co., Hamburg; Caustic, 112 drs., Roessler & Hasslacher Chem. Co., Hamburg; 72 drs., Order, Hamburg; 112 drs., Roessler & Hasslacher Chem. Co., Hamburg; Metabisulfite, 15 cks., Order, Hamburg; Nitrate, 392 cks., Kuttroff Pickhardt & Co., Hamburg; Permanganate, 200 cks., Roessler & Hasslacher, Hamburg; 84 drs., Innis Speiden Co., Hamburg; 110 drs., Superfos Co., Hamburg; Prussiate, 16 kgs., C. Tennant Sons & Co., Liverpool; 10 cks., Order, Liverpool; Quicksilver—50 bottles, Ital. Disc. & Trust Co., Hamburg.  
**QUININE**—13 cs., Mallinckrodt Chem. Wks., Rotterdam; 40 cs., Amer. Exp. Co., Rotterdam; 6 cs., W. Van Doorn, Rotterdam.  
**QUINOIDINE**—10 cs., R. W. Greeff & Co., Rotterdam.  
**ROCHELLE SALTS**—99 cks., Order, Rotterdam.  
**ROOTS**—8 bgs., Peek & Velsor, Hamburg; 34 bgs., 3 bbls., S. B. Penick & Co., Hamburg; 16 bgs., Nickells Rowland Co., Hamburg; 40 cs., Order, Messina; 8 cs.,

Lucia; 33 cks., Park Benziger & Co., St. Lucia; 4 cks., Planters Produce Co., Doburg; 10 lbs., McLaughlin Gormley & King, Hamburg; 117 bgs., Anderson Hillier Co., Hamburg; 41 bgs., Lehn & Fink, Hamburg; 21 bgs., Eli Lilly Co., Hamburg; 67 lbs., Order, Trieste; Aconite, 7 bgs., Order, London; Arrow, 18 bbls., J. Morningstar, Barbados; 50 bbls., Middleton & Co., Barbados; Colocynth, 12 bbls., Anglo Egypt Bank, Port Sudan; Dandelion, 46 bgs., Brown Bros. & Co., London.  
**ROSIN**—10 bbls., Mecke & Co., Azua; 2 bbls., Suzuki & Co., Kobe.  
**SAL AMMONIAC**—192 bbls., Nat. Amer. Bk., Hamburg.  
**SEEDS**—Anise, 50 cs., Order, Hongkong; Caraway, 100 bgs., J. D. Nordlinger, Rotterdam; 100 bgs., Graham Co., Rotterdam; 300 bgs., French Kreme Co., Rotterdam; 100 bgs., Vulcan Foreign Comm. Corp., Rotterdam; 200 bgs., Levy & Lewis, Rotterdam; 200 bgs., Catz Amer. Co., Rotterdam; 100 bgs., Order, Rotterdam; Cardamom, 3 cs., Strohmeier & Arpe Co., London; Castor, 20 bgs., Huttlinger & Struller, Port de Paix; Cumin, 160 bgs., Fidelity Intern. Trust Co., Hamburg; 200 bgs., Order, Liverpool; Fenel, 50 cs., Order, Palermo; Larchne, 200 bgs., Wood & Sons, Havre; 200 bgs., Karr, Ellis & Co., Havre; Mustard, 250 bgs., Order, Naples; 144 bgs., Order, Palermo; 150 bgs., Archibald & Lewis, Rotterdam; 50 bgs., G. Miller & Co., Rotterdam; 150 bgs., A. Joensson Co., Rotterdam; Poppy, 100 bgs., Austin Nichols & Co., Rotterdam; 50 bgs., G. T. German, Rotterdam; 300 bgs., E. L. Prior & Co., Rotterdam; 100 bgs., Hershey Tdg. Co., Rotterdam; 200 bgs., French Kreme Co., Rotterdam; 100 bgs., Spencer Impg. Co., Rotterdam; 300 bgs., Archibald & Lewis, Rotterdam; 100 bgs., F. H. Leggett & Co., Rotterdam; 400 bgs., Order, Rotterdam; Rape, 250 bgs., Archibald & Lewis, Rotterdam; 90 bgs., G. W. Sheldon & Co., Rotterdam; 200 bgs., Amer. Exp. Co., Rotterdam; Sunflower, 379 bgs., Order, Buenos Aires.  
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**SODIUM SALTS**—**Hyposulfite**, 250 cks., Afga Products, Inc., Hamburg; **Nitrate**, 42,772 bgs., Wessel Duval & Co., Callao; 101,176 sks., A. Gibbs & Co., Mejillones; 250 cks., Order, Hamburg; 5,729 bgs., Wessel Duval & Co., Antofagasta; 4,210 bgs., E. I. du Pont de Nemours & Co., Antofagasta; 13,775 bgs., E. I. du Pont de Nemours & Co., Taltal; **Nitrite**, 91 cks., Order, Christiania; **Sulfite**, 4 drs., C. S. Grant & Co., Hamburg

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**SULFIDE ZINC PURISS**—2 cks., C. A. Sykes, London

**TALC**—300 bgs., H. Mathieu, Genoa; 400 bgs., C. B. Chrystal & Co., Genoa

**TAPIOCA**—662 bgs., Hog Amsterdam, Sourabaya; 300 bgs., Catz Amer. Co., Batavia; **Flour**, 67 bgs., Order, Liverpool; 507 bgs., Equit. Trust Co., Sourabaya; 17,675 bgs., Hog Amsterdam, Sourabaya; 1,012 bgs., Nat. Shawmut Bk., Sourabaya; 1,034 bgs., Bk. of N. Y. & Trust Co., Batavia; 274 bgs., Internat. Bkgs. Corp., Batavia; 250 bgs., Equit. Trust Co., Batavia; 500 bgs., Chat-ham & Phoenix Nat. Bk., Batavia; **Pearl**, 1,929 bgs., Hog Amsterdam, Sourabaya

**TERPENOL**—5 cks., Order, Hamburg

**VALONIA**—1,233 sks., Order, Smyrna

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**Bees**, 86 bgs., D. Steengrafe, Valparaiso;

30 bgs., D. Steengrafe, Talcahuano; 2 cs., H. Focke, Jeremie; 41 bgs., Order, Havana;

25 cs., Nat. City Bank, Hamburg; **Carnauba**, 34 bgs., Internat. Acceptance Bk., Ceara;

130 bgs., Nat. City Bk., Ceara; 56 bgs., Order, Ceara; 998 bgs., Nat. City Bk., Parnahyba; **Med. Paraffin**, 1 drum, Order, London; **Mineral**, 10 bgs., Order, London; **Montan**, 195 bgs., Fidelity Internat. Trust Co., Hamburg; **Spermaceti**, 50 cs., Order, Glasgow

**WOODFLOUR**—542 bgs., Innis Speiden & Co., Hamburg; 444 bgs., A. Kramer & Co., Hamburg; 1,313 bgs., Internat. Acceptance Bk., Hamburg; 161 bgs., A. Kramer & Co., Hamburg; 900 bgs., Order, Copenhagen

**ZINC—Oxide**, 33 cks., L. H. Butcher Co., Liverpool; **Resinate**, 10 cs., Order, London

### Books of Trade Interest

LABORATORY EXPERIMENTS IN CHEMISTRY. By N. Henry Black, Roxbury Latin School, Boston, Mass. 167 pages, 8vo. The MacMillan Co., New York. 1923.

The directions for these experiments are at first very full and detailed, but are gradually abbreviated so as to leave more to the reader's own initiative and imagination.

COMMERCIAL LAW. By I. Amster, B.S., Hunter College, New York. 179 pages, 8vo. Globe Book Company, New York. 1923.

At the end of every chapter there are comprehensive questions and typical problems covering the subject matter fully. No business man need to be without expert advice on commercial law.

ELEMENTARY CHEMICAL CALCULATIONS. By Martin Meyer, Ph.D., Instructor in Chemistry, College of the City of New York. 131 pages, 8vo. Oxford Book Company, New York. 1923.

Originality is not claimed in all the methods of solution. The problems themselves have been chosen from all convenient sources, especially from the college examinations.

FUNDAMENTALS OF ORGANIC AND BIOLOGICAL CHEMISTRY. By Thomas Guthrie Phillips, Ph.D., of Ohio State University. 253 pages, 8vo. D. Appleton and Co., New York. 1928.

It is undoubtedly true that the science of chemistry alone now has a greater content than had all the sciences put together a century ago, and the growth of other sciences has been proportionately great. This work is presented to the public with the hope that it will prove useful to those who need some knowledge of organic and biological chemistry, but who have only a limited amount of time to devote to the subject.

VAT COLORS. By J. F. Thorpe and C. K. Ingold. 491 pages, 8vo. Longmans, Green & Co., publishers.

One of the series of books on synthetic coloring matters in which the authors indicate the condition in which the chemistry of vat colors now stands. The work covers the field of vat dyes from the history of indigo, the oldest vat dye, to the latest developments in the chemistry of vat dyes.

DYESTUFFS DERIVED FROM PYRIDINE, QUINOLINE, ACRIDINE AND XANTHENE. By J. T. Hewitt, M.A., D.Sc., Ph.D., F.R.S. Prof. Emeritus of Chemistry, East London College, Univ. of London. 405 pages, 8vo. Longmans, Green & Co., publishers.

This monograph, another of the Sir Edward Thorpe's editions on synthetic coloring matters, goes into the chemistry of these classes of dyestuffs with formulae and reactions in dyestuffs. Patent literature and references are quoted throughout the book.

Imports at San Francisco for the week ending Nov. 17 were as follows: On steamer President Wilson, from Manila, to Miller & Lux, 6,070 sacks copra; from Balikpapan via Hongkong, to Shell Co. of California 820 bags wax; from Calcutta via Hongkong, to W. R. Grace & Co., 20 bales cinnamon; from Kobe, to S. L. Jones & Co., 10 bales agar agar, and to order 75 barrels cod oil. On steamer President Cleveland, from Hongkong, to Ti Hiang Lung & Co., 150 cases peanut oil; from Tjikini via Hongkong, to S. L. Jones & Co., 125 bags cloves; from Colombo via Hongkong to order 100 bales cinnamon quills.

The Chemists' Club recently held its twenty-fifth anniversary at 50 East 41st st., New York. About one hundred and forty members attended. Dr. William H. Nichols presided as toastmaster. Entertainment was furnished by local talent with the assistance of the several radio broadcasting stations in New York. Dr. Ellwood Hendrick officiated at the marriage of Miss National Aniline to General Chemical. A. E. Buchanan, the club's magician, entertained the members.

An engraved certificate of merit to be awarded to companies whose exhibits at the last Exposition of Chemical Industries were noteworthy, has been designed and is being engraved by the American Bank Note Co., and will be distributed early in December. Plans for the tenth exposition to be held Sept. 28 to October 3, 1925, call for a broad scheme in the awarding of certificates for unique and unusual exhibits of industrial products and enterprises.

Zinc production in October was 42,098 tons compared with 39,105 tons in September and 39,940 tons in October, 1922. Stocks on hand increased to 25,787 tons in October against 22,893 tons in September and 18,043 tons a year ago. Tin stocks were larger in October with 3,677 tons against 2,362 tons last month. The world visible supply in October was 20,567 tons compared with 19,863 tons last month.

A branch of Duroxo Manufacturing Co., Inc., of Los Angeles, Cal., has been opened at San Francisco, with Joseph E. Rodgers in charge. The principal products of the company are a chemical concrete floor hardener, a wood preservative and a waterproofing compound for concrete.

Pacific Guano & Fertilizer Co. will move its main offices from 114 Sansome st., San Francisco, to the new Matson Building on Market st., where quarters will be occupied on the twelfth floor.

Excelsior Chemical Co. has taken a lease on a large building on Bryant st., between Second and Third sts., San Francisco, Cal.

[NOVEMBER 28, 1923]

# Wants & Offers

## BUSINESS OPPORTUNITIES

**SALES AGENT**—A live sales organization in New York desires to represent a manufacturer of chemical products in the Metropolitan District and for export. Long in business. Best standing in the trade. Expanding. Box 503, DRUG & CHEMICAL MARKETS.

**A LARGE ESTABLISHED** chemical manufacturing concern is interested in increasing its holdings in the chemical field, either by the manufacture of additional products or by the acquisition of new properties, whereby possibly financial and sales assistance is needed. We are prepared at the present time to discuss this matter thoroughly, and if you write us at the address designated, we will gladly arrange for an interview. Box 463, DRUG & CHEMICAL MARKETS.

**ADVERTISING**—If you desire to have your Want Ad read by people in the trade, try this page. While the average newspaper is about one or two percent effective as far as chemical wants are concerned, this page is read 100% by makers, sellers, and buyers of chemicals, drugs, and allied products. Five cents per word—one dollar minimum.

**EXPORT SELLING**—Established organization desires several new non-competitive lines in the chemical and drug field with exclusive export rights. Good connections. Can put over the right line of goods. Box 507, DRUG & CHEMICAL MARKETS.

**AGENCIES WANTED**—Local distributor of industrial chemicals will add two or three more manufacturers products to his list. Have established trade in New England and trained salesmen calling on trade. Box 481, DRUG & CHEMICAL MARKETS.

**EXPORT CHEMICAL EXECUTIVE**, practical, responsible, experienced, with a proven record as a producer of business, desires connection as export manager of A-1 firm. Capable of taking full charge and producing business immediately. Well known to importers and consumers of drugs, chemicals and allied lines in Latin America. Agents in principal cities. References. Box 491, DRUG & CHEMICAL MARKETS.

**AGGRESSIVE SALES REPRESENTATIVE** in Cuba, covering the territory with trained salesmen, desires to represent American chemical or pharmaceutical manufacturers. Best business and bank references. Box 499, DRUG & CHEMICAL MARKETS.

## BUSINESS OPPORTUNITIES

**ARTISTS FOR MANUFACTURERS**—Clever layouts, snappy designs, photo retouching for advertisements, booklets, catalogues. JACOB STEIN STUDIO, 432 Fourth Ave., N. Y. C.

**PHARMACIST**, traveler of Canada desires connection with a wholesale pharmaceutical house. Also seeks representations for Canada. Best references. Box 501, DRUG & CHEMICAL MARKETS.

**IF YOU MANUFACTURE** specialties used in various consuming industries which could be sold in Southern Ohio, address Box 512, DRUG & CHEMICAL MARKETS.

**To Manufacturers of Heavy Chemicals**—IMPORTANT German wholesale dealers, well organized specialists, desire agency general of reputated chemical works for the exclusive wholesale in Germany and/or continent. Own store houses, first class references. Strict confidence. Apply to K. N., 650 Annoncen Expedition v. Danckelman Hamburg I.

## SITUATIONS WANTED

**SALESMAN**—Advertiser has sold all sorts of industrial chemicals and will tackle any selling job with a reliable firm on a straight commission for six weeks to demonstrate his ability. Box 497, DRUG & CHEMICAL MARKETS.

**CHEMICAL ENGINEER**—Graduate of M. I. T. with nine years practical experience seeks a position of responsibility with opportunities for advancement. Able to assume full charge of plant making coal-tar products. Box 479, DRUG & CHEMICAL MARKETS.

**LABORATORY ASSISTANT**—Young Ph.D. chemist now in consulting office wants to work in the manufacturing field. Will begin at low salary if the work will give proper experience and holds promise of advancement. Box 496, DRUG & CHEMICAL MARKETS.

**SALESMAN**—Experienced in medicinal chemical field, desires connection with progressive house. Speaks French and German. Box 504, DRUG & CHEMICAL MARKETS.

**A MAN** who controls the job you want is most apt to be a regular reader of this column. For real positions in the chemical, drug, dye, oil and allied fields no medium brings better results than these Wants and Offers—5c a word.

## SITUATIONS WANTED

**SALESMAN**—Experienced, University graduate, is open for proposition, chemical or engineering line preferred. Box 493, DRUG & CHEMICAL MARKETS.

**CHEMIST**—Mass. Institute Technology graduate considerable business and technical experience would like to hear from interested parties. Immediately available. Box 498, DRUG & CHEMICAL MARKETS.

**PHARMACEUTICAL** detail man of wide acquaintance, good address and experience is open for engagement. Box 484, DRUG & CHEMICAL MARKETS.

**PLANT MANAGER**—Chemical Engineer, 41 years old, three college degrees, sixteen years practical experience will be available January 1st. Will not consider any but high class proposition with well established house. Is able to completely take charge of any chemical plant and is not only a trained technician but a good executive. Highest references. Box 495, DRUG & CHEMICAL MARKETS.

**PHARMACEUTICAL CHEMICALS**—Experienced, reliable salesman with good record is open for a position with future opportunity for a man who can produce real results. Box 494, DRUG & CHEMICAL MARKETS.

**CHEMICAL ENGINEER**, B. S. 1922 leading Eastern university; one year's experience; excellent past record and highest references. Box 511, DRUG & CHEMICAL MARKETS.

## HELP WANTED

**SALESMEN**—Salesmanagers and executives throughout the chemical industry read DRUG & CHEMICAL MARKETS every week. If you desire to make a new connection, a Want Ad on this page will be read by real chemical people who are in need of salesmen. Use a specialized medium to reach a specialized field. Five cents per word—one dollar minimum per insertion.

**INDUSTRIAL CHEMIST**—College man who has had some manufacturing and some selling experience. Must be able to correspond. Give age, initial salary, and firms worked for in the chemical field. Box 505, DRUG & CHEMICAL MARKETS.

**SHIPPING and ORDER CLERK** wanted to take charge of New York warehouse. Write fully on experience and salary. Box 480, DRUG & CHEMICAL MARKETS.

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**CHEMICAL GRADUATE**—Well-known firm requires services of recent college graduate in chemistry who has had some selling or other business experience, possibly six months. Salary moderate to start, but good opportunity for right sort of man. Prefer man who has been outside during a short period. Box 508, DRUG & CHEMICAL MARKETS.

**CHEMICAL HOUSE** looking for bright salesmen for Philadelphia and New England districts, familiar with consumers of industrial chemicals. State experience and salary expected. Box 510, DRUG & CHEMICAL MARKETS.

**CHEMICAL ENGINEER**—An established chemical corporation requires the services of a high grade chemical engineer to take control of production in large plant in the Metropolitan district. Applications from thoroughly experienced men of proved competency only will be considered, and knowledge of industrial processes supported by forceful personality and executive ability is required. Salary commensurate. Box 478, DRUG & CHEMICAL MARKETS.

**BUYER** for a large manufacturer of toilet preparations. Must be familiar with both essential and fixed oils. Kindly give full particulars as to experience. Box 482, DRUG & CHEMICAL MARKETS.

## DRUGS AND CHEMICALS

**CHINA WOOD OIL**—Are you buying pure wood oil? Or, do you think that you are? Sampling and analysis by leading authority in New York means assured purity and saving of many dollars. Drop a card to Box 509, DRUG & CHEMICAL MARKETS for the real story of Wood Oil sampling.

## PLANT EQUIPMENT

**WANTED**—All sizes and quantities of new and second hand carboys, steel drums and wooden barrels. Box 500, DRUG & CHEMICAL MARKETS.

**WANTED**—Enamelled lined jacketed kettles, wooden tanks, also wooden filter presses 30° to 36°. Give your available sizes and prices. Box 506, DRUG & CHEMICAL MARKETS.

**FOR SALE**—1 Standard Style A, U. S. Louisville Direct Pressure Bottle Filling Machine, complete with twelve tubes, two sizes. Machine in first class condition having been overhauled recently and can be purchased very reasonably. Liebenthal Bros. & Co., 1436 W. 9th Street, Cleveland, Ohio.

## PLANT EQUIPMENT

**FOR SALE**—Carload usable second hands 12 gallon carboys. Also carload 7 gallon carboys ideal for storage or inter-plant service. Box 513, DRUG & CHEMICAL MARKETS.

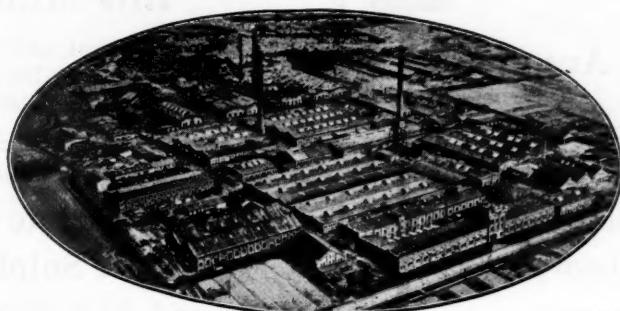
**FOR SALE**—500 gallon cedar tanks practically new in the Newark district. Dealers need not apply. Box 447, DRUG & CHEMICAL MARKETS.

**FOR SALE**—Bradford type mill 28" stone made by Owille Simpson, in A-1 condition. Box 467, DRUG & CHEMICAL MARKETS.

**WANTED TO BUY**—Laboratory apparatus, scales, platinum. Box 464, DRUG & CHEMICAL MARKETS.

## MISCELLANEOUS

**ASK THE** Bureau of Employment of the Chemists' Club (Agency) 52 East 41st Street, New York City. If you need a chemist (man or woman) for the laboratory or works. If you wish a position for the practice of your profession. No charge to employers. Moderate fee to applicants. Prof. Herbert R. Moody, Chairman Club Committee.



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an airplane  
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For full particulars as to products and addresses see Index of Advertisers on the page following.

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Battelle & Renwick  
Chilean Nitrate Committee  
Church & Dwight  
The Cleveland-Cliffs Iron Co.  
Chas. Cooper & Co.  
Diamond Alkali Co.  
The Dow Chemical Co.  
E. I. du Pont de Nemours & Co.  
Ellis Jackson & Co.  
English China Clays Sales Corp.  
B. G. Feinberg  
General Chemical Co.  
Grasselli Chemical Co.  
W. F. George Chemicals, Inc.  
Wm. S. Gray & Co.  
R. W. Greff & Co.  
Chas. Hardy & Ruperti, Inc.  
Harshaw, Fuller & Goodwin Co.  
Hans Hinrichs Chem. Corp.  
Edward Hill's Son & Co.  
Industrial Chemical Co.  
International Salt Co.  
Jayne & Sidebottom, Inc.  
A. Klipstein & Co.

Chas. Lennig & Co., Inc.  
Meteor Products Co.  
Mathieson Alkali Works, Inc.  
The Miner-Edgar Co.  
Monsanto Chemical Works,  
Clarence Morgan & Co.  
The New Brunswick Chem. Co.  
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Henry W. Peabody & Co.  
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Pfaltz & Bauer  
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Seaboard Chemical Co.  
Semet Solvay Co.  
E. M. Sergeant Co.  
Solvay Process Co.  
Thorkildsen-Mather Co.  
Victor Chemical Works  
The Warner Chemical Co.  
E. H. Watson  
Wilkes-Martin-Wilkes Co.  
Isaac Winkler & Bro. Co.  
Wishnick-Tumpey Chemical Co.  
Jacques Wolf & Co.

## FINE CHEMICALS

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Baird & McGuire  
J. T. Baker Chemical Co.  
David Berg Industrial Alcohol Co.  
Carbide & Carbon Chem. Corp.  
Antoine Chiris Co.  
Commonwealth Chemical Corp.  
Charles Cooper & Co.  
Danco Sales Corp.  
J. E. Dockendorff & Co.  
The Dow Chemical Co.  
Eastman Kodak Co.  
Electro Bleaching Gas Co.  
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E. Fougera & Co.  
The Fries & Fries Co.  
William S. Gray & Co.  
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Harshaw, Fuller & Goodwin Co.  
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Hoffmann-LaRoche Chem. Wks.  
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Mathieson Alkali Wks., Inc.  
May & Baker  
Meteor Products Co.  
H. A. Metz & Co.  
The Miner-Edgar Co.  
Monsanto Chemical Works  
Clarence Morgan & Co.  
N. Y. Quinine & Chem. Works  
The Norvell Chemical Corp.  
Perth Amboy Chem. Wks.  
Pfaltz & Bauer  
Powers-Weightman-Rosengarten  
B. Prezman Company  
Roessler & Hasslacher Chem. Co.  
Rhodia Chem. Co.  
C. P. Schlick  
Thorkildsen-Mather Co.  
Geo. Ure  
Ungerer & Co.  
U. S. Industrial Chemical Co.  
Victor Chemical Works  
Victor & Hosken  
Wilkes-Martin-Wilkes Co.  
Wishnick-Tumpey Chemical Co.  
Jacques Wolf & Co.

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John Campbell & Co.  
Dow Chemical Co.  
Dye Products & Chem. Co.  
E. I. du Pont de Nemours & Co.  
Ellis Jackson & Co.  
A. Klipstein & Co.  
Gary Chem. Co.  
Grasselli Chemical Co.

The Heller & Mertz Co.  
H. A. Metz & Co.  
National Aniline & Chemical Co.  
The New Brunswick Chem. Co.  
Newport Chemical Works  
Pharma-Chemical Corp.  
Wishnick-Tumpey Chemical Co.  
Jacques Wolf & Co.

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The Barrett Co.  
Calco Chemical Co.  
John Campbell & Co.  
Dow Chemical Co.  
E. I. du Pont de Nemours & Co.  
Dye Products & Chem. Co.  
The Heller & Mertz Co.

Jordan Coal Tar Products Co.  
A. Klipstein & Co.  
H. A. Metz & Company  
Monsanto Chemical Works  
National Aniline & Chemical Co.  
Newport Chemical Works  
The Norvell Chemical Corp.  
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| CARBON DIOXIDE           | ISOBUTYL ALCOHOL      |
| ETHER, ABSOLUTE          | ISOPROPYL ALCOHOL     |
| ETHER, ANESTHESIA        | IODINE, DISTILLED     |
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